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C3755
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U.S. DEPARTMENT OF THE INTERIOR

PROTOTYPE OIL SHALE LEASING PROGRAM

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QUARTERLY REPORT #2

(Through February 28, 1975)

Submitted to:

Mr. Peter A. Rutledge
Area Oil Shale Supervisor
Conservation District
U. S. Geological Survey
Grand Junction, Colorado

By:

Ashland Oil, Inc.
Atlantic Richfield Company, Operator
Shell Oil Company
The Oil Shale Corporation

APRIL 14, 1975

SHOUT
SHARE
IT

QUARTERLY REPORT #2

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Drill Stem Tests - SG-17 (Cont'd)

COMPANY ATLANTIC-RICHFIELD COMPANY **WELL** FEDERAL S. G. #17 **TEST NO.** 29 **COUNTY** RIO BLANCO **STATE** COLORADO

JOHNSTON

Schlumberger

technical report

RECEIVED

JAN 2 1975

A. J. ROGERS

II B-1293

F. R. #09113 C

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	1617	-	-
CLOSED FOR INITIAL SHUT-IN	1619	-	-
FINISHED SHUT-IN	1650	-	-
RE-OPENED TOOL	1652	-	-
STARTED INJECTING WATER			
AT 2 GAL/MIN.	2005	-	-
INCREASED INJECTION TO			
5 GAL/MIN.	2025	-	-
INCREASED INJECTION TO			
10 GAL/MIN.	2045	-	-
DECREASED INJECTION TO			
5 GAL/MIN.	2054	-	-
STOPPED INJECTION	2105	-	-
CLOSED FOR FINAL SHUT-IN	2301	-	-
PULLED PACKER LOOSE	2311	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER - FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested GREEN RIVER
Elevation 7036 Ft.
Net Productive Interval 52 Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 1870 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 298' I.D. -
Drill Pipe Length 1486' I.D. -
Packer Depth(s) 1814' & 1818' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure ______ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas ______
cc. Oil ______
cc. Water ______
cc. Mud ______
Tot. Liquid cc. ______
Gravity ______ °API @ ______ °F.
Gas/Oil Ratio ______ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: ______

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH
FEDERAL S. G. #17 Location 436' FWL & 181' FSL SEC. 16-3S-96W
Test Interval 1818' TO 1870' Test # 29 Date 12-21-74

County RIO BLANCO State COLORADO II B-1294
Technician TAYLOR (VERNAL) Test Approved By MR. L. M. POWERS

Field Report No. 09113 C
No. Reports Requested 14 (13x)

PRESSURE DATA

Instrument No.	4633 N		
Capacity (P.S.i.G.)	2650		
Instrument Depth	1793'		
Instrument Opening	INSIDE		
Pressure Gradient P.S.I./Ft.			
Well Temperature °F.	-		
Initial Hydrostatic Mud A			
Initial Shut-in B			
Initial Flow C			
Final Flow D			
Final Shut-in E			
Final Hydrostatic Mud F			

Field Report No. 09113 C

TIME DATA

Time Given	Time Computed
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.

Remarks:

INSTRUMENT NUMBER 32342 N; NO PRESSURES RECORDED DUE TO MALFUNCTION OF INSTRUMENT.

*Shut in pressure did not reach static reservoir pressure.

Clock Travel 0.003490 inches per min.

PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
	572.9		30	576.8		62	225.4	
	575.5		31	576.8		63	229.4	
3 0	26.1		32	578.2		64	233.3	
1	43.2		33	578.2		65	235.9	
4 2	56.3		5 34	578.2		66	241.2	
3	179.5		35	579.5		67	243.8	
4	294.9		6 36	579.5		68	246.4	
5	464.1		7 37	52.4		69	250.4	
6	511.3		38	91.7		70	254.3	
7	536.2		39	106.1		71	258.2	
8	546.7		40	116.6		72	262.2	
9	553.2		41	125.8		73	264.8	
10	555.9		42	133.7		74	268.7	
11	561.1		43	141.5		75	272.6	
12	562.4		44	148.1		76	276.6	
13	566.3		45	153.3		77	279.2	
14	567.7		46	158.6		78	283.1	
15	569.0		47	162.5		79	285.8	
16	570.3		48	166.4		80	289.7	
17	571.6		49	171.7		81	291.0	
18	571.6		50	175.6		82	294.9	
19	572.9		51	179.5		83	297.6	
20	574.2		52	184.8		84	301.5	
21	574.2		53	188.7		85	304.1	
22	574.2		54	192.7		86	308.0	
23	575.5		55	196.6		87	310.7	
24	575.5		56	201.8		88	313.3	
25	575.5		57	204.5	II B-1295	89	315.9	
26	575.5		58	208.4		90	319.8	
27	576.8		59	212.3		91	321.2	
28	576.8		60	216.3		92	325.1	
29	576.8		61	221.5		93	327.7	

PRESSURE DATA

Instrument No.		4633 N		
Capacity (P.S.I.G.)				
Instrument Depth				
Instrument Opening				
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.				
Initial Hydrostatic Mud	A			
Initial Shut-in	B			
Initial Flow	C			
Final Flow	D			
Final Shut-in	E			
Final Hydrostatic Mud	F			

Field Report No. 09113 C

TIME DATA

Time Given	Time Computed
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.

Remarks:

*Shut in pressure did not reach static reservoir pressure.

Clock Travel 0.003490 inches per min.

PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$
94	331.6		126	406.4		166	471.9	
95	334.3		127	409.0		168	473.3	
96	336.9		128	411.6		170	475.9	
97	339.5		129	412.9		172	478.5	
98	342.1		130	415.6		174	481.1	
99	344.8		131	416.9		176	483.7	
100	347.4		132	418.2		178	486.4	
101	350.0		133	420.8		180	487.7	
102	352.6		134	422.1		182	490.3	
103	355.2		135	424.7		184	492.9	
104	357.9		136	426.1		186	494.2	
105	360.5		137	427.4		188	496.9	
106	361.8		138	428.7		190	498.2	
107	365.7		139	431.3		192	499.5	
108	367.0		140	432.6		194	502.1	
109	369.7		141	433.9		196	503.4	
110	372.3		142	436.5		198	504.7	
111	374.9		143	437.9		200	507.3	
112	376.2		144	439.2		202	508.7	
113	373.8		145	441.8		204	510.0	
114	381.5		146	443.1		206	511.3	
115	384.1		147	444.4		208	513.9	
116	386.7		148	445.7		210	513.9	
117	388.0		149	447.0		212	515.2	
118	389.3		150	448.3		214	517.8	
119	392.0		152	452.3		216	519.1	
120	394.6		154	454.9		218	520.5	
121	397.2		156	457.5	II B-1296	220	521.8	
122	399.8		158	460.1		222	523.1	
123	401.1		160	464.1		224	524.4	
124	402.4		162	466.7		226	525.7	
125	405.1		164	469.3		228	527.0	

PRESSURE DATA

Instrument No.	4633 N		
Capacity (P.S.I.G.)			
Instrument Depth			
Instrument Opening			
Pressure Gradient P.S.I./Ft.			
Well Temperature °F.			
Initial Hydrostatic Mud A			
Initial Shut-in B			
Initial Flow C			
Final Flow D			
Final Shut-in E			
Final Hydrostatic Mud F			

Field Report No. 09113 C

TIME DATA

Time Given	Time Computed
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.
Mins.	Mins.

Remarks:

*Shut in pressure did not reach static reservoir pressure.

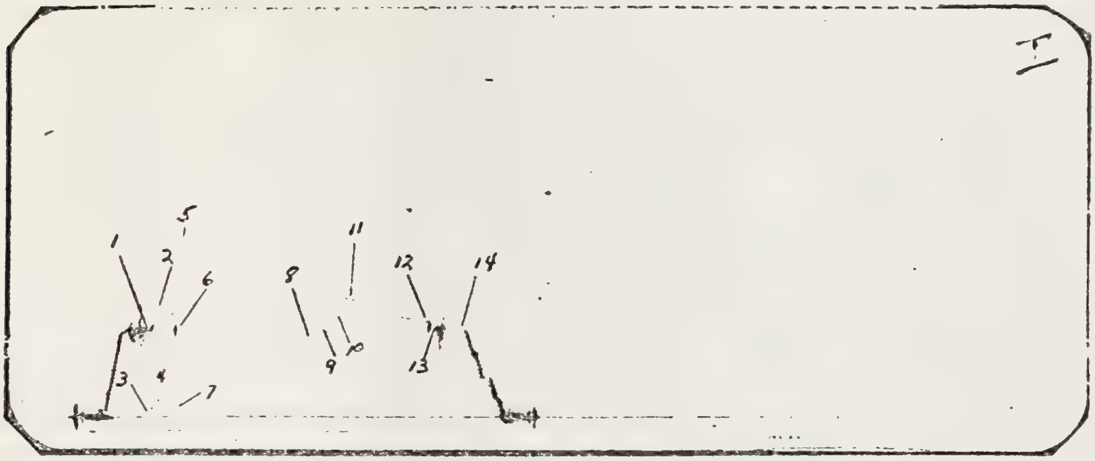
Clock Travel 0.003490 inches per min.

PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$
230	527.0		290	778.8		354	667.3	
232	536.2		292	773.5		356	664.7	
234	542.7		294	767.0		358	662.1	
236	549.3		296	760.4		360	660.8	
238	557.2		298	755.2		362	659.4	
240	563.7		300	751.2		364	658.1	
242	570.3		302	746.0		366	655.5	
244	576.8		304	742.1		368	654.2	
246	583.4		306	736.8		370	652.9	
248	588.6		308	732.9		372	651.6	
9 249	591.3		310	728.9		374	650.3	
250	600.4		312	723.7		376	649.0	
252	610.9		314	721.1		378	647.6	
254	621.4		316	717.1		380	646.3	
256	631.9		318	713.2		382	645.0	
258	641.1		320	709.3		384	643.7	
260	650.3		322	706.6		386	642.4	
262	659.4		324	702.7		388	641.1	
264	667.3		326	700.1		390	639.8	
266	676.5		328	697.5		392	638.5	
10 268	685.7		330	694.3		394	637.2	
270	710.6		332	690.9		396	635.8	
272	734.2		334	688.3		398	635.3	
274	756.5		336	687.0		400	634.5	
276	777.5		338	684.4		12 402	633.2	
278	784.0		340	681.7		404	614.9	
280	785.3		342	679.1		406	612.2	
282	785.3		344	676.5	II B-1297	408	609.6	
284	785.3		346	675.2		410	608.3	
286	785.3		348	672.6		412	607.0	
288	785.3		350	669.9		13 414	605.7	
11 289	785.3		352	668.6		14	580.8	

JOHNSTON

FIELD REPORT NO.	**RECORDER NO.**
09113 C	4633 N
CAPACITY	**REPORTS REQUESTED**
2650#	14+



JOHNSTON

FIELD REPORT NO.	**RECORDER NO.**
09113 C	32342 N
CAPACITY	**REPORTS REQUESTED**
2800#	14+

PRESSURE GAUGE DRILL STEM TEST SHEET

DST 29

Job No. SPG-1120-A Date 12-21-1974 Run DST-29 Office Casper 1-15-12 [illegible]

Customer Amoco Et Al Location Trapper Ck

State Colo County/Parish Rio Blanco

Well [illegible] #17 No. #17 Field ~~[illegible]~~ [illegible]

USE MILITARY TIME FOR ALL TIMES

		Time	Date		Time	Date	Time Charged
Arrive: Well/Dock	1.	1200	12/21/74	2.			
Depart: Well/Dock	1.	0200	12/22/74	2.			Hrs.
Gauge Start in Hole	1.	1415	12/21/74	2.	1431	12/21/74	
Gauge Out of Hole	1.	0141	12/22/74	2.	0124	12/22/74	Hrs.

No. Trips 1 Miles 90 Total Mileage 90

Top Gauge # 71 Element # 30951 Range 1000 Time Mode 1 hr

Btm.Gauge # 98 Element # 28001 4) Range 2500 Time Mode 1 hr

Type Tool DST Test Depth 1818-1870 Zero Point Ground level

Packer Depth 1818 Tail Pipe Depth 1776.88 Top Gauge Depth 1776.88

Bottom Hole Temp. 91°F Atmos. Temp. 28° Bottom Gauge Depth 1829.15

TIME INFORMATION	Time	Date	PRESSURE INFORMATION	
On Bottom	1544-53	12/21/74	Initial Hydrostatic Mud	
Packer Set	1615-00	12/21/74	Initial Draw Down	
Initial Open	1617-15	12/21/74	Initial Build-Up	
Initial Shut-In	1619-15	12/21/74	Final Flow	
Start Flow	1652-45	12/21/74	Final Build-Up	
Final Shut-In	2301	12/21/74	Final Hydrostatic Mud	
Packer Unseated	2311	12/21/74	Mud Weight	

TIME OF SURFACE NULLS

Top Gauge 1417-55 1418-55 1419-53 Bottom Gauge 1409-13 1410-13 1411-13

Remarks One False Null on #71 while screwing in.

Torq on Drill Pipe Broke loose about 1604 hrs (bad clock)

SP-423

II B-1299

Operator

JOB NUMBER
SPG 11210 AA

DATE OF JOB
DECEMBER 21, 1974

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER:	FEDERAL SG 17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE 71 WITH 1000 LB. ELEMENT.

GAUGE LOCATED OUTSIDE D.P. IN ANNULUS

ABOVE PACKER

DEPTH OF GAUGE IS 1777 FT.

TEST INTERVAL SURFACE TO 1818 FT.

SET PACKER DEPTH IS 1818 FT.

INITIAL HYDROSTATIC IS 569.32 PSI

FINAL HYDROSTATIC IS 575.12 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

509 POINTS REPORTED THIS JOB

```
JOB NUMBER                                                        DATE OF JOB
SPG 11210 AA                                                DECEMBER 21, 1974

GAUGE/RUN NUMBER                                                  DATE OF RUN
71    DST NO. 29                                             JANUARY 21, 1975

                              SPERRY-SUN
           PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA    PRESSURE                  TIME     DATE             COMMENTS
    TIME      (PSI)                   HR MIN

    0.000    569.528                  16  19 DEC 21,1974   INITIAL SHUTIN
     .016    569.220                  16  20 DEC 21,1974
     .031    569.267                  16  21 DEC 21,1974
     .047    569.291                  16  22 DEC 21,1974
     .062    569.315                  16  23 DEC 21,1974
     .078    569.315                  16  24 DEC 21,1974
     .093    569.362                  16  25 DEC 21,1974
     .109    569.386                  16  26 DEC 21,1974
     .124    569.362                  16  26 DEC 21,1974
     .140    569.362                  16  27 DEC 21,1974
     .155    569.386                  16  28 DEC 21,1974
     .171    569.433                  16  29 DEC 21,1974
     .186    569.433                  16  30 DEC 21,1974
     .202    569.433                  16  31 DEC 21,1974
     .217    569.457                  16  32 DEC 21,1974
     .233    569.481                  16  33 DEC 21,1974
     .248    569.528                  16  34 DEC 21,1974
     .264    569.504                  16  35 DEC 21,1974
     .279    569.552                  16  36 DEC 21,1974
     .295    569.575                  16  37 DEC 21,1974
     .310    569.623                  16  38 DEC 21,1974
     .326    569.623                  16  39 DEC 21,1974
     .341    569.670                  16  39 DEC 21,1974
     .357    569.670                  16  40 DEC 21,1974
     .372    569.694                  16  41 DEC 21,1974
     .388    569.694                  16  42 DEC 21,1974
     .403    569.717                  16  43 DEC 21,1974
     .419    569.765                  16  44 DEC 21,1974
     .434    569.765                  16  45 DEC 21,1974
     .450    569.765                  16  46 DEC 21,1974
     .465    569.812                  16  47 DEC 21,1974
     .481    569.836                  16  48 DEC 21,1974
     .496    569.836                  16  49 DEC 21,1974
     .512    569.859                  16  50 DEC 21,1974
     .527    569.883                  16  51 DEC 21,1974
     .543    569.907                  16  52 DEC 21,1974
     .558    570.002                  16  53 DEC 21,1974   END SHUT IN
```

```
                    37 POINTS REPORTED THIS RUN
```

JOB NUMBER
SPG 11210 AA

DATE OF JOB
DECEMBER 21, 1974

GAUGE/RUN NUMBER
71 DST NO. 29

DATE OF RUN
JANUARY 21, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	570.002	16	53	DEC 21,1974	START FLOW
.013	569.836	16	54	DEC 21,1974	
.026	569.859	16	55	DEC 21,1974	
.039	569.978	16	55	DEC 21,1974	
.052	570.002	16	56	DEC 21,1974	
.065	570.167	16	57	DEC 21,1974	
.078	570.167	16	58	DEC 21,1974	
.091	570.215	16	58	DEC 21,1974	
.104	570.191	16	59	DEC 21,1974	
.117	570.238	17	00	DEC 21,1974	
.130	570.238	17	01	DEC 21,1974	
.143	570.310	17	02	DEC 21,1974	
.156	570.286	17	02	DEC 21,1974	
.169	570.333	17	03	DEC 21,1974	
.182	570.333	17	04	DEC 21,1974	
.195	570.381	17	05	DEC 21,1974	
.208	570.404	17	06	DEC 21,1974	
.221	570.381	17	06	DEC 21,1974	
.234	570.404	17	07	DEC 21,1974	
.247	570.452	17	08	DEC 21,1974	
.260	570.452	17	09	DEC 21,1974	
.273	570.475	17	09	DEC 21,1974	
.286	570.523	17	10	DEC 21,1974	
.300	570.523	17	11	DEC 21,1974	
.313	570.523	17	12	DEC 21,1974	
.326	570.523	17	13	DEC 21,1974	
.339	570.546	17	13	DEC 21,1974	
.352	570.617	17	14	DEC 21,1974	
.365	570.617	17	15	DEC 21,1974	
.378	570.617	17	16	DEC 21,1974	
.391	570.617	17	16	DEC 21,1974	
.404	570.665	17	17	DEC 21,1974	
.417	570.712	17	18	DEC 21,1974	
.430	570.712	17	19	DEC 21,1974	
.443	570.736	17	20	DEC 21,1974	
.456	570.760	17	20	DEC 21,1974	
.469	570.783	17	21	DEC 21,1974	
.482	570.783	17	22	DEC 21,1974	
.495	570.783	17	23	DEC 21,1974	
.508	570.831	17	23	DEC 21,1974	

JOB NUMBER
SPG 11210 AA

DATE OF JOB
DECEMBER 21, 1974

GAUGE/RUN NUMBER
71 DST NO. 29

DATE OF RUN
JANUARY 21, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
.521	570.807	17	24	DEC 21,1974	
.534	570.831	17	25	DEC 21,1974	
.547	570.831	17	26	DEC 21,1974	
.560	570.878	17	27	DEC 21,1974	
.573	570.902	17	27	DEC 21,1974	
.586	570.902	17	28	DEC 21,1974	
.599	570.902	17	29	DEC 21,1974	
.612	570.949	17	30	DEC 21,1974	
.625	570.949	17	31	DEC 21,1974	
.638	570.996	17	31	DEC 21,1974	
.651	570.973	17	32	DEC 21,1974	
.664	571.020	17	33	DEC 21,1974	
.677	571.044	17	34	DEC 21,1974	
.690	571.044	17	34	DEC 21,1974	
.703	571.091	17	35	DEC 21,1974	
.716	571.115	17	36	DEC 21,1974	
.729	571.091	17	37	DEC 21,1974	
.742	571.115	17	38	DEC 21,1974	
.755	571.139	17	38	DEC 21,1974	
.768	571.162	17	39	DEC 21,1974	
.781	571.186	17	40	DEC 21,1974	
.794	571.233	17	41	DEC 21,1974	
.807	571.257	17	41	DEC 21,1974	
.820	571.233	17	42	DEC 21,1974	
.833	571.281	17	43	DEC 21,1974	
.846	571.281	17	44	DEC 21,1974	
.859	571.328	17	45	DEC 21,1974	
.872	571.328	17	45	DEC 21,1974	
.885	571.375	17	46	DEC 21,1974	
.899	571.375	17	47	DEC 21,1974	
.912	571.375	17	48	DEC 21,1974	
.925	571.375	17	48	DEC 21,1974	
.938	571.375	17	49	DEC 21,1974	
.951	571.423	17	50	DEC 21,1974	
.964	571.446	17	51	DEC 21,1974	
.977	571.423	17	52	DEC 21,1974	
.990	571.470	17	52	DEC 21,1974	
1.003	571.494	17	53	DEC 21,1974	
1.016	571.518	17	54	DEC 21,1974	
1.029	571.518	17	55	DEC 21,1974	

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1.042	571,518	17	56	DEC 21,1974	
1.055	571,518	17	56	DEC 21,1974	
1.068	571,541	17	57	DEC 21,1974	
1.081	571,541	17	58	DEC 21,1974	
1.094	571,565	17	59	DEC 21,1974	
1.107	571,612	17	59	DEC 21,1974	
1.120	571,612	18	00	DEC 21,1974	
1.133	571,660	18	01	DEC 21,1974	
1.146	571,660	18	02	DEC 21,1974	
1.159	571,683	18	03	DEC 21,1974	
1.172	571,707	18	03	DEC 21,1974	
1.185	571,683	18	04	DEC 21,1974	
1.198	571,707	18	05	DEC 21,1974	
1.211	571,731	18	06	DEC 21,1974	
1.224	571,754	18	06	DEC 21,1974	
1.237	571,778	18	07	DEC 21,1974	
1.250	571,802	18	08	DEC 21,1974	
1.263	571,802	18	09	DEC 21,1974	
1.276	571,825	18	10	DEC 21,1974	
1.289	571,849	18	10	DEC 21,1974	
1.302	571,849	18	11	DEC 21,1974	
1.315	571,873	18	12	DEC 21,1974	
1.328	571,897	18	13	DEC 21,1974	
1.341	571,920	18	13	DEC 21,1974	
1.354	571,920	18	14	DEC 21,1974	
1.367	571,944	18	15	DEC 21,1974	
1.380	571,944	18	16	DEC 21,1974	
1.393	571,968	18	17	DEC 21,1974	
1.406	571,991	18	17	DEC 21,1974	
1.419	571,991	18	18	DEC 21,1974	
1.432	571,991	18	19	DEC 21,1974	
1.445	572,086	18	20	DEC 21,1974	
1.458	572,062	18	21	DEC 21,1974	
1.471	572,062	18	21	DEC 21,1974	
1.485	572,110	18	22	DEC 21,1974	
1.498	572,110	18	23	DEC 21,1974	
1.511	572,157	18	24	DEC 21,1974	
1.524	572,133	18	24	DEC 21,1974	
1.537	572,157	18	25	DEC 21,1974	
1.550	572,157	18	26	DEC 21,1974	

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1,563	572,133	18	27	DEC 21,1974	
1,576	572,181	18	28	DEC 21,1974	
1,589	572,157	18	28	DEC 21,1974	
1,602	572,204	18	29	DEC 21,1974	
1,615	572.228	18	30	DEC 21,1974	
1,628	572,204	18	31	DEC 21,1974	
1,641	572.228	18	31	DEC 21,1974	
1,654	572,228	18	32	DEC 21,1974	
1,667	572,252	18	33	DEC 21,1974	
1,680	572,275	18	34	DEC 21,1974	
1,693	572,252	18	35	DEC 21,1974	
1,706	572,252	18	35	DEC 21,1974	
1,719	572,299	18	36	DEC 21,1974	
1,732	572,323	18	37	DEC 21,1974	
1,745	572,323	18	38	DEC 21,1974	
1,758	572,370	18	38	DEC 21,1974	
1,771	572,418	18	39	DEC 21,1974	
1,784	572,418	18	40	DEC 21,1974	
1,797	572,418	18	41	DEC 21,1974	
1,810	572,418	18	42	DEC 21,1974	
1,823	572,418	18	42	DEC 21,1974	
1,836	572.441	18	43	DEC 21,1974	
1,849	572,465	18	44	DEC 21,1974	
1,862	572,465	18	45	DEC 21,1974	
1,875	572,465	18	46	DEC 21,1974	
1,888	572.465	18	46	DEC 21,1974	
1,901	572.489	18	47	DEC 21,1974	
1,914	572.465	18	48	DEC 21,1974	
1,927	572,489	18	49	DEC 21,1974	
1,940	572,512	18	49	DEC 21,1974	
1,953	572,512	18	50	DEC 21,1974	
1,966	572,560	18	51	DEC 21,1974	
1,979	572,583	18	52	DEC 21,1974	
1,992	572,607	18	53	DEC 21,1974	
2,005	572,631	18	53	DEC 21,1974	
2,018	572,654	18	54	DEC 21,1974	
2,031	572,631	18	55	DEC 21,1974	
2,044	572,654	18	56	DEC 21,1974	
2,057	572,678	18	56	DEC 21,1974	
2,070	572,678	18	57	DEC 21,1974	

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2.084	572.702	18	58	DEC 21,1974	
2.097	572,749	18	59	DEC 21,1974	
2.110	572,749	19	00	DEC 21,1974	
2.123	572.749	19	00	DEC 21,1974	
2.136	572,749	19	01	DEC 21,1974	
2.149	572,797	19	02	DEC 21,1974	
2.162	572.773	19	03	DEC 21,1974	
2.175	572.773	19	03	DEC 21,1974	
2.188	572.773	19	04	DEC 21,1974	
2.201	572.797	19	05	DEC 21,1974	
2.214	572.820	19	06	DEC 21,1974	
2.227	572.820	19	07	DEC 21,1974	
2.240	572.844	19	07	DEC 21,1974	
2.253	572.844	19	08	DEC 21,1974	
2.266	572.844	19	09	DEC 21,1974	
2.279	572.868	19	10	DEC 21,1974	
2.292	572.868	19	11	DEC 21,1974	
2.305	572.891	19	11	DEC 21,1974	
2.318	572.891	19	12	DEC 21,1974	
2.331	572.915	19	13	DEC 21,1974	
2.344	572.939	19	14	DEC 21,1974	
2.357	572.962	19	14	DEC 21,1974	
2.370	572.962	19	15	DEC 21,1974	
2.383	572.986	19	16	DEC 21,1974	
2.396	572.986	19	17	DEC 21,1974	
2.409	572.986	19	18	DEC 21,1974	
2.422	573.010	19	18	DEC 21,1974	
2.435	573.010	19	19	DEC 21,1974	
2.448	573.010	19	20	DEC 21,1974	
2.461	573.057	19	21	DEC 21,1974	
2.474	573.057	19	21	DEC 21,1974	
2.487	573.033	19	22	DEC 21,1974	
2.500	573.057	19	23	DEC 21,1974	
2.513	573.081	19	24	DEC 21,1974	
2.526	573.057	19	25	DEC 21,1974	
2.539	573.081	19	25	DEC 21,1974	
2.552	573.105	19	26	DEC 21,1974	
2.565	573.128	19	27	DEC 21,1974	
2.578	573.128	19	28	DEC 21,1974	
2.591	573.128	19	28	DEC 21,1974	

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TIME	(PSI)	HR	MIN		
2.604	573.152	19	29	DEC 21,1974	
2.617	573.176	19	30	DEC 21,1974	
2.630	573.199	19	31	DEC 21,1974	
2.643	573.176	19	32	DEC 21,1974	
2.656	573.176	19	32	DEC 21,1974	
2.669	573.223	19	33	DEC 21,1974	
2.683	573.199	19	34	DEC 21,1974	END RECOVERY
2.696	573.223	19	35	DEC 21,1974	
2.709	573.247	19	36	DEC 21,1974	
2.722	573.247	19	36	DEC 21,1974	
2.735	573.247	19	37	DEC 21,1974	
2.748	573.294	19	38	DEC 21,1974	
2.761	573.318	19	39	DEC 21,1974	
2.774	573.341	19	39	DEC 21,1974	
2.787	573.294	19	40	DEC 21,1974	
2.800	573.341	19	41	DEC 21,1974	
2.813	573.365	19	42	DEC 21,1974	
2.826	573.389	19	43	DEC 21,1974	
2.839	573.389	19	43	DEC 21,1974	
2.852	573.365	19	44	DEC 21,1974	
2.865	573.389	19	45	DEC 21,1974	
2.878	573.389	19	46	DEC 21,1974	
2.891	573.412	19	46	DEC 21,1974	
2.904	573.412	19	47	DEC 21,1974	
2.917	573.412	19	48	DEC 21,1974	
2.930	573.436	19	49	DEC 21,1974	
2.943	573.507	19	50	DEC 21,1974	
2.956	573.460	19	50	DEC 21,1974	
2.969	573.483	19	51	DEC 21,1974	
2.982	573.507	19	52	DEC 21,1974	
2.995	573.483	19	53	DEC 21,1974	
3.008	573.483	19	53	DEC 21,1974	
3.021	573.507	19	54	DEC 21,1974	
3.034	573.507	19	55	DEC 21,1974	
3.047	573.507	19	56	DEC 21,1974	
3.060	573.531	19	57	DEC 21,1974	
3.073	573.578	19	57	DEC 21,1974	
3.086	573.555	19	58	DEC 21,1974	
3.099	573.602	19	59	DEC 21,1974	
3.112	573.578	20	00	DEC 21,1974	

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3,125	573,578	20	01	DEC 21,1974	
3,138	573,602	20	01	DEC 21,1974	
3,151	573,626	20	02	DEC 21,1974	
3,164	573,626	20	03	DEC 21,1974	
3,177	573,626	20	04	DEC 21,1974	
3,190	573,649	20	04	DEC 21,1974	
3,203	573,649	20	05	DEC 21,1974	
3,216	573,673	20	06	DEC 21,1974	2 G/M DOWN
3,229	573,673	20	07	DEC 21,1974	DRILL PIPE
3,242	573,673	20	08	DEC 21,1974	
3,255	573,673	20	08	DEC 21,1974	
3,269	573,720	20	09	DEC 21,1974	
3,282	573,744	20	10	DEC 21,1974	
3,295	573,768	20	11	DEC 21,1974	
3,308	573,744	20	11	DEC 21,1974	
3,321	573,720	20	12	DEC 21,1974	
3,334	573,791	20	13	DEC 21,1974	
3,347	573,791	20	14	DEC 21,1974	
3,360	573,791	20	15	DEC 21,1974	
3,373	573,791	20	15	DEC 21,1974	
3,386	573,815	20	16	DEC 21,1974	
3,399	573,815	20	17	DEC 21,1974	
3,412	573,839	20	18	DEC 21,1974	
3,425	573,839	20	18	DEC 21,1974	
3,438	573,862	20	19	DEC 21,1974	
3,451	573,886	20	20	DEC 21,1974	
3,464	573,862	20	21	DEC 21,1974	
3,477	573,862	20	22	DEC 21,1974	
3,490	573,934	20	22	DEC 21,1974	
3,503	573,910	20	23	DEC 21,1974	
3,516	573,957	20	24	DEC 21,1974	
3,529	573,910	20	25	DEC 21,1974	
3,542	573,957	20	26	DEC 21,1974	
3,555	574,005	20	26	DEC 21,1974	5 G/M DOWN
3,568	574,005	20	27	DEC 21,1974	DRILL PIPE
3,581	574,005	20	28	DEC 21,1974	
3,594	574,028	20	29	DEC 21,1974	
3,607	574,028	20	29	DEC 21,1974	
3,620	574,052	20	30	DEC 21,1974	
3,633	574,028	20	31	DEC 21,1974	

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3,646	574,028	20	32	DEC 21,1974	
3,659	574,052	20	33	DEC 21,1974	
3.672	574.052	20	33	DEC 21,1974	
3,685	574,052	20	34	DEC 21,1974	
3,698	574,099	20	35	DEC 21,1974	
3,711	574,099	20	36	DEC 21,1974	
3,724	574,123	20	36	DEC 21,1974	
3,737	573,626	20	37	DEC 21,1974	
3,750	574.147	20	38	DEC 21,1974	
3,763	574,147	20	39	DEC 21,1974	
3,776	574,170	20	40	DEC 21,1974	
3,789	574.194	20	40	DEC 21,1974	
3,802	574,194	20	41	DEC 21,1974	
3,815	574,194	20	42	DEC 21,1974	
3,828	574.218	20	43	DEC 21,1974	
3,841	574.241	20	43	DEC 21,1974	
3.854	574.241	20	44	DEC 21,1974	
3.868	574.241	20	45	DEC 21,1974	
3,881	574,265	20	46	DEC 21,1974	10 G/M DOWN
3,894	574.265	20	47	DEC 21,1974	DRILL PIPE
3,907	574.289	20	47	DEC 21,1974	
3,920	574,313	20	48	DEC 21,1974	
3,933	574,289	20	49	DEC 21,1974	
3,946	574.313	20	50	DEC 21,1974	
3,959	574,336	20	51	DEC 21,1974	
3,972	574,360	20	51	DEC 21,1974	
3.985	574,360	20	52	DEC 21,1974	
3,998	574,360	20	53	DEC 21,1974	
4,011	574,360	20	54	DEC 21,1974	
4.024	574,360	20	54	DEC 21,1974	
4,037	574,384	20	55	DEC 21,1974	5 G/M DOWN
4,050	574.431	20	56	DEC 21,1974	DRILL PIPE
4,063	574,455	20	57	DEC 21,1974	
4.076	574,431	20	58	DEC 21,1974	
4.089	574,431	20	58	DEC 21,1974	
4,102	574,478	20	59	DEC 21,1974	
4,115	574,478	21	00	DEC 21,1974	
4,128	574,502	21	01	DEC 21,1974	
4,141	574,526	21	01	DEC 21,1974	
4,154	574,573	21	02	DEC 21,1974	

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4,167	574,691	21	03	DEC 21,1974	
4,180	574,763	21	04	DEC 21,1974	
4,193	574,834	21	05	DEC 21,1974	
4,206	574,857	21	05	DEC 21,1974	
4,219	574,928	21	06	DEC 21,1974	30 MIN DECLINE
4,232	574,952	21	07	DEC 21,1974	
4,245	575,047	21	08	DEC 21,1974	
4,258	575,094	21	08	DEC 21,1974	
4,271	575,070	21	09	DEC 21,1974	
4,284	575.047	21	10	DEC 21,1974	
4,297	575,094	21	11	DEC 21,1974	
4,310	575,070	21	12	DEC 21,1974	
4.323	575,070	21	12	DEC 21,1974	
4,336	575,047	21	13	DEC 21,1974	
4,349	575.047	21	14	DEC 21,1974	
4,362	575.047	21	15	DEC 21,1974	
4,375	575,047	21	16	DEC 21,1974	
4,388	575,023	21	16	DEC 21,1974	
4,401	575,023	21	17	DEC 21,1974	
4,414	575,023	21	18	DEC 21,1974	
4,427	575,047	21	19	DEC 21,1974	
4,440	574,999	21	19	DEC 21,1974	
4,454	575,023	21	20	DEC 21,1974	
4,467	575,023	21	21	DEC 21,1974	
4,480	574,999	21	22	DEC 21,1974	
4,493	574,976	21	23	DEC 21,1974	
4,506	575,023	21	23	DEC 21,1974	
4,519	574,999	21	24	DEC 21,1974	
4,532	574,999	21	25	DEC 21,1974	
4,545	574,999	21	26	DEC 21,1974	
4,558	575.047	21	26	DEC 21,1974	
4.571	575,023	21	27	DEC 21,1974	
4,584	575,023	21	28	DEC 21,1974	
4,597	574,999	21	29	DEC 21,1974	
4,610	575,047	21	30	DEC 21,1974	
4,623	575.047	21	30	DEC 21,1974	
4,636	575,047	21	31	DEC 21,1974	
4,649	575,047	21	32	DEC 21,1974	
4,662	575,070	21	33	DEC 21,1974	
4,675	575,094	21	33	DEC 21,1974	

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		HR	MIN		
4.688	575.070	21	34	DEC 21,1974	
4.701	575.094	21	35	DEC 21,1974	
4.714	575.070	21	36	DEC 21,1974	
4.727	575.094	21	37	DEC 21,1974	60 G/M DOWN
4.740	575.094	21	37	DEC 21,1974	ANNULUS
4.753	578.221	21	38	DEC 21,1974	
4.766	580.116	21	39	DEC 21,1974	
4.779	582.366	21	40	DEC 21,1974	
4.792	583.763	21	41	DEC 21,1974	
4.805	584.190	21	41	DEC 21,1974	
4.818	585.492	21	42	DEC 21,1974	
4.831	586.677	21	43	DEC 21,1974	
4.844	587.624	21	44	DEC 21,1974	
4.857	588.643	21	44	DEC 21,1974	
4.870	589.685	21	45	DEC 21,1974	
4.883	590.467	21	46	DEC 21,1974	
4.896	591.367	21	47	DEC 21,1974	
4.909	591.556	21	48	DEC 21,1974	
4.922	592.101	21	48	DEC 21,1974	
4.935	592.859	21	49	DEC 21,1974	
4.948	593.048	21	50	DEC 21,1974	
4.961	593.569	21	51	DEC 21,1974	
4.974	594.233	21	51	DEC 21,1974	
4.987	594.848	21	52	DEC 21,1974	
5.000	595.417	21	53	DEC 21,1974	
5.013	595.891	21	54	DEC 21,1974	
5.026	596.222	21	55	DEC 21,1974	
5.039	596.483	21	55	DEC 21,1974	
5.053	596.767	21	56	DEC 21,1974	
5.066	597.122	21	57	DEC 21,1974	
5.079	597.430	21	58	DEC 21,1974	
5.092	597.572	21	58	DEC 21,1974	
5.105	597.880	21	59	DEC 21,1974	
5.118	597.951	22	00	DEC 21,1974	
5.131	598.141	22	01	DEC 21,1974	
5.144	598.283	22	02	DEC 21,1974	
5.157	598.544	22	02	DEC 21,1974	
5.170	598.780	22	03	DEC 21,1974	
5.183	598.970	22	04	DEC 21,1974	
5.196	599.065	22	05	DEC 21,1974	

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5.209	599.278	22	06	DEC 21,1974	
5.222	599.467	22	06	DEC 21,1974	
5.235	599.657	22	07	DEC 21,1974	
5.248	599.633	22	08	DEC 21,1974	
5.261	599.846	22	09	DEC 21,1974	
5.274	599.988	22	09	DEC 21,1974	
5.287	600.083	22	10	DEC 21,1974	
5.300	600.225	22	11	DEC 21,1974	
5.313	600.438	22	12	DEC 21,1974	
5.326	600.628	22	13	DEC 21,1974	
5.339	600.794	22	13	DEC 21,1974	
5.352	600.960	22	14	DEC 21,1974	
5.365	601.220	22	15	DEC 21,1974	
5.378	601.481	22	16	DEC 21,1974	
5.391	601.623	22	16	DEC 21,1974	
5.404	601.741	22	17	DEC 21,1974	
5.417	601.907	22	18	DEC 21,1974	
5.430	602.025	22	19	DEC 21,1974	
5.443	602.168	22	20	DEC 21,1974	
5.456	602.144	22	20	DEC 21,1974	
5.469	602.286	22	21	DEC 21,1974	
5.482	602.404	22	22	DEC 21,1974	
5.495	602.547	22	23	DEC 21,1974	
5.508	602.641	22	23	DEC 21,1974	
5.521	602.783	22	24	DEC 21,1974	
5.534	602.783	22	25	DEC 21,1974	
5.547	602.831	22	26	DEC 21,1974	
5.560	602.831	22	27	DEC 21,1974	
5.573	602.902	22	27	DEC 21,1974	
5.586	602.973	22	28	DEC 21,1974	
5.599	603.020	22	29	DEC 21,1974	
5.612	603.115	22	30	DEC 21,1974	
5.625	603.162	22	31	DEC 21,1974	
5.638	603.210	22	31	DEC 21,1974	
5.652	603.281	22	32	DEC 21,1974	
5.665	603.352	22	33	DEC 21,1974	
5.678	603.470	22	34	DEC 21,1974	
5.691	603.589	22	34	DEC 21,1974	
5.704	603.731	22	35	DEC 21,1974	
5.717	603.826	22	36	DEC 21,1974	START 30 MIN

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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
5.730	602.665	22	37	DEC 21,1974	DECLINE
5.743	600.320	22	38	DEC 21,1974	
5.756	597.478	22	38	DEC 21,1974	
5.769	595.559	22	39	DEC 21,1974	
5.782	593.380	22	40	DEC 21,1974	
5.795	591.911	22	41	DEC 21,1974	
5.808	590.490	22	41	DEC 21,1974	
5.821	588.808	22	42	DEC 21,1974	
5.834	587.743	22	43	DEC 21,1974	
5.847	586.535	22	44	DEC 21,1974	
5.860	585.492	22	45	DEC 21,1974	
5.873	584.569	22	45	DEC 21,1974	
5.886	584.308	22	46	DEC 21,1974	
5.899	583.479	22	47	DEC 21,1974	
5.912	582.745	22	48	DEC 21,1974	
5.925	582.318	22	48	DEC 21,1974	
5.938	581.750	22	49	DEC 21,1974	
5.951	581.253	22	50	DEC 21,1974	
5.964	580.921	22	51	DEC 21,1974	
5.977	580.518	22	52	DEC 21,1974	
5.990	580.234	22	52	DEC 21,1974	
6.003	579.926	22	53	DEC 21,1974	
6.016	579.666	22	54	DEC 21,1974	
6.029	579.476	22	55	DEC 21,1974	
6.042	579.263	22	56	DEC 21,1974	
6.055	579.144	22	56	DEC 21,1974	
6.068	579.002	22	57	DEC 21,1974	
6.081	578.860	22	58	DEC 21,1974	
6.094	578.813	22	59	DEC 21,1974	
6.107	578.742	22	59	DEC 21,1974	
6.120	578.694	23	00	DEC 21,1974	
6.133	578.742	23	01	DEC 21,1974	END OF TEST

472 POINTS REPORTED THIS RUN

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PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG 17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE 98 WITH 2500 LB. ELEMENT.

GAUGE LOCATED INSIDE D.P. BELOW PACKER.

DEPTH OF GAUGE IS 1829 FT.

TEST INTERVAL 1818 TO 1870 FT.

SET PACKER DEPTH IS 1818 FT.

INITIAL HYDROSTATIC IS 591.05 PSI

FINAL HYDROSTATIC IS 624.28 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

406 POINTS REPORTED THIS JOB

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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	58,142	16	19	DEC 21,1974	INITIAL SHUTIN
,017	61.448	16	20	DEC 21,1974	
,033	54,835	16	21	DEC 21,1974	
,050	66.031	16	22	DEC 21,1974	
,067	408.865	16	23	DEC 21,1974	
,083	519.674	16	24	DEC 21,1974	
,100	532.019	16	25	DEC 21,1974	
,117	557,059	16	26	DEC 21,1974	
,133	566,244	16	27	DEC 21,1974	
,150	571.919	16	28	DEC 21,1974	
,167	576.073	16	29	DEC 21,1974	
,183	579,408	16	30	DEC 21,1974	
,200	581.982	16	31	DEC 21,1974	
,217	583,854	16	32	DEC 21,1974	
,233	585.434	16	33	DEC 21,1974	
,250	586,721	16	34	DEC 21,1974	
,267	587,716	16	35	DEC 21,1974	
,283	588,535	16	36	DEC 21,1974	
,300	589,354	16	37	DEC 21,1974	
,317	590.173	16	38	DEC 21,1974	
,333	590.758	16	39	DEC 21,1974	
,350	591.285	16	40	DEC 21,1974	
,367	591.694	16	41	DEC 21,1974	
,383	592.162	16	42	DEC 21,1974	
,400	592.513	16	43	DEC 21,1974	
,417	592.864	16	44	DEC 21,1974	
,433	593.157	16	45	DEC 21,1974	
,450	593.508	16	46	DEC 21,1974	
,467	593,800	16	47	DEC 21,1974	
,483	593.976	16	48	DEC 21,1974	
,500	594,327	16	49	DEC 21,1974	
,517	594.619	16	50	DEC 21,1974	
,533	594.795	16	51	DEC 21,1974	
,550	594.853	16	52	DEC 21,1974	
,567	594,970	16	53	DEC 21,1974	END OF INITIAL

35 POINTS REPORTED THIS RUN

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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	197,542	16	53	DEC 21,1974	OPEN TO FLOW
,017	192,727	16	54	DEC 21,1974	
,033	189,595	16	55	DEC 21,1974	
,050	193,655	16	56	DEC 21,1974	
,066	80,476	16	57	DEC 21,1974	
,083	91,440	16	58	DEC 21,1974	
,099	101,476	16	59	DEC 21,1974	
,116	112,382	17	00	DEC 21,1974	
,133	124,796	17	01	DEC 21,1974	
,149	135,470	17	02	DEC 21,1974	
,166	144,578	17	03	DEC 21,1974	
,182	152,467	17	04	DEC 21,1974	
,199	159,835	17	05	DEC 21,1974	
,215	167,260	17	06	DEC 21,1974	
,232	171,959	17	07	DEC 21,1974	
,249	176.542	17	08	DEC 21,1974	
,265	181.125	17	09	DEC 21,1974	
,282	185,534	17	10	DEC 21,1974	
,298	190,059	17	11	DEC 21,1974	
,315	194,758	17	12	DEC 21,1974	
,332	198,934	17	13	DEC 21,1974	
,348	203,169	17	14	DEC 21,1974	
,365	207,404	17	15	DEC 21,1974	
,381	211,644	17	16	DEC 21,1974	
,398	215,740	17	17	DEC 21,1974	
,414	219,952	17	18	DEC 21,1974	
,431	224,106	17	19	DEC 21,1974	
,448	228,026	17	20	DEC 21,1974	
,464	232,004	17	21	DEC 21,1974	
,481	236,099	17	22	DEC 21,1974	
,497	240,136	17	23	DEC 21,1974	
,514	243,939	17	24	DEC 21,1974	
,530	247,917	17	25	DEC 21,1974	
,547	251,720	17	26	DEC 21,1974	
,564	255,289	17	27	DEC 21,1974	
,580	258,916	17	28	DEC 21,1974	
,597	262,661	17	29	DEC 21,1974	
,613	266,464	17	30	DEC 21,1974	
,630	270,032	17	31	DEC 21,1974	
,646	273,718	17	32	DEC 21,1974	

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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
.663	277.346	17	33	DEC 21,1974	
.680	280.856	17	34	DEC 21,1974	
.696	284.425	17	35	DEC 21,1974	
.713	288.169	17	36	DEC 21,1974	
.729	291.504	17	37	DEC 21,1974	
.746	294.897	17	38	DEC 21,1974	
.763	298.349	17	39	DEC 21,1974	
.779	301.567	17	40	DEC 21,1974	
.796	304.902	17	41	DEC 21,1974	
.812	307.944	17	42	DEC 21,1974	
.829	311.045	17	43	DEC 21,1974	
.845	314.204	17	44	DEC 21,1974	
.862	317.246	17	45	DEC 21,1974	
.879	320.230	17	46	DEC 21,1974	
.895	323.214	17	47	DEC 21,1974	
.912	326.256	17	48	DEC 21,1974	
.928	329.240	17	49	DEC 21,1974	
.945	332.282	17	50	DEC 21,1974	
.961	335.090	17	51	DEC 21,1974	
.978	338.074	17	52	DEC 21,1974	
.995	340.882	17	53	DEC 21,1974	
1.011	343.632	17	54	DEC 21,1974	
1.028	346.440	17	55	DEC 21,1974	
1.044	349.248	17	56	DEC 21,1974	
1.061	351.998	17	57	DEC 21,1974	
1.077	354.806	17	58	DEC 21,1974	
1.094	357.498	17	59	DEC 21,1974	
1.111	360.306	18	00	DEC 21,1974	
1.127	362.939	18	01	DEC 21,1974	
1.144	365.630	18	02	DEC 21,1974	
1.160	368.029	18	03	DEC 21,1974	
1.177	370.603	18	04	DEC 21,1974	
1.194	373.119	18	05	DEC 21,1974	
1.210	375.400	18	06	DEC 21,1974	
1.227	378.150	18	07	DEC 21,1974	
1.243	380.549	18	08	DEC 21,1974	
1.260	382.772	18	09	DEC 21,1974	
1.276	385.229	18	10	DEC 21,1974	
1.293	387.569	18	11	DEC 21,1974	
1.310	389.968	18	12	DEC 21,1974	

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1,326	392,250	18	13	DEC 21,1974	
1,343	394,532	18	14	DEC 21,1974	
1,359	396,872	18	15	DEC 21,1974	
1,376	399,095	18	16	DEC 21,1974	
1,392	401,494	18	17	DEC 21,1974	
1,409	403,717	18	18	DEC 21,1974	
1,426	405,940	18	19	DEC 21,1974	
1,442	408,163	18	20	DEC 21,1974	
1,459	410,328	18	21	DEC 21,1974	
1,475	412,376	18	22	DEC 21,1974	
1,492	414,540	18	23	DEC 21,1974	
1,508	416,764	18	24	DEC 21,1974	
1,525	418,811	18	25	DEC 21,1974	
1,542	420,859	18	25	DEC 21,1974	
1,558	422,731	18	26	DEC 21,1974	
1,575	424,720	18	27	DEC 21,1974	
1,591	426,709	18	28	DEC 21,1974	
1,608	428,640	18	29	DEC 21,1974	
1,625	430,629	18	30	DEC 21,1974	
1,641	432,618	18	31	DEC 21,1974	
1,658	434,549	18	32	DEC 21,1974	
1,674	436,363	18	33	DEC 21,1974	
1,691	438,235	18	34	DEC 21,1974	
1,707	440,049	18	35	DEC 21,1974	
1,724	441,804	18	36	DEC 21,1974	
1,741	443,676	18	37	DEC 21,1974	
1,757	445,431	18	38	DEC 21,1974	
1,774	447,186	18	39	DEC 21,1974	
1,790	448,941	18	40	DEC 21,1974	
1,807	450,580	18	41	DEC 21,1974	
1,823	452,276	18	42	DEC 21,1974	
1,840	453,680	18	43	DEC 21,1974	
1,857	455,669	18	44	DEC 21,1974	
1,873	457,308	18	45	DEC 21,1974	
1,890	458,829	18	46	DEC 21,1974	
1,906	460,291	18	47	DEC 21,1974	
1,923	461,930	18	48	DEC 21,1974	
1,939	463,451	18	49	DEC 21,1974	
1,956	464,972	18	50	DEC 21,1974	
1,973	466,551	18	51	DEC 21,1974	

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1,989	467,956	18	52	DEC 21,1974	
2,006	469,360	18	53	DEC 21,1974	
2,022	470,822	18	54	DEC 21,1974	
2,039	472,285	18	55	DEC 21,1974	
2,055	473,923	18	56	DEC 21,1974	
2,072	475,269	18	57	DEC 21,1974	
2,089	476,614	18	58	DEC 21,1974	
2,105	477,901	18	59	DEC 21,1974	
2,122	479,306	19	00	DEC 21,1974	
2,138	480,593	19	01	DEC 21,1974	
2,155	481,821	19	02	DEC 21,1974	
2,172	483,518	19	03	DEC 21,1974	
2,188	484,630	19	04	DEC 21,1974	
2,205	485,917	19	05	DEC 21,1974	
2,221	487,262	19	06	DEC 21,1974	
2,238	488,491	19	07	DEC 21,1974	
2,254	489,778	19	08	DEC 21,1974	
2,271	491,007	19	09	DEC 21,1974	
2,288	492,177	19	10	DEC 21,1974	
2,304	493,464	19	11	DEC 21,1974	
2,321	494,692	19	12	DEC 21,1974	
2,337	495,863	19	13	DEC 21,1974	
2,354	497,033	19	14	DEC 21,1974	
2,370	498,203	19	15	DEC 21,1974	
2,387	499,373	19	16	DEC 21,1974	
2,404	500,426	19	17	DEC 21,1974	
2,420	501,479	19	18	DEC 21,1974	
2,437	502,591	19	19	DEC 21,1974	
2,453	503,644	19	20	DEC 21,1974	
2,470	504,697	19	21	DEC 21,1974	
2,486	505,691	19	22	DEC 21,1974	
2,503	506,745	19	23	DEC 21,1974	
2,520	507,739	19	24	DEC 21,1974	
2,536	508,734	19	25	DEC 21,1974	
2,553	509,728	19	26	DEC 21,1974	
2,569	510,781	19	27	DEC 21,1974	
2,586	511,776	19	28	DEC 21,1974	
2,603	512,771	19	29	DEC 21,1974	
2,619	513,707	19	30	DEC 21,1974	
2,636	514,701	19	31	DEC 21,1974	

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2,652	515,579	19	32	DEC 21,1974	
2,669	516,456	19	33	DEC 21,1974	
2,685	517,451	19	34	DEC 21,1974	END RECOVERY
2,702	518,270	19	35	DEC 21,1974	
2,719	519,148	19	36	DEC 21,1974	
2,735	520,025	19	37	DEC 21,1974	
2,752	521,020	19	38	DEC 21,1974	
2,768	521,780	19	39	DEC 21,1974	
2,785	522,716	19	40	DEC 21,1974	
2,801	523,594	19	41	DEC 21,1974	
2,818	524,413	19	42	DEC 21,1974	
2,835	525,232	19	43	DEC 21,1974	
2,851	526,051	19	44	DEC 21,1974	
2,868	526,812	19	45	DEC 21,1974	
2,884	527,631	19	46	DEC 21,1974	
2,901	528,391	19	47	DEC 21,1974	
2,917	529,152	19	48	DEC 21,1974	
2,934	529,913	19	49	DEC 21,1974	
2,951	530,673	19	50	DEC 21,1974	
2,967	531,375	19	51	DEC 21,1974	
2,984	532,136	19	52	DEC 21,1974	
3,000	532,896	19	53	DEC 21,1974	
3,017	533,598	19	54	DEC 21,1974	
3,034	534,301	19	55	DEC 21,1974	
3,050	535,061	19	56	DEC 21,1974	
3,067	535,822	19	57	DEC 21,1974	
3,083	536,582	19	58	DEC 21,1974	
3,100	537,167	19	59	DEC 21,1974	
3,116	537,811	20	00	DEC 21,1974	
3,133	538,571	20	01	DEC 21,1974	
3,150	539,273	20	02	DEC 21,1974	
3,166	539,859	20	03	DEC 21,1974	
3,183	540,502	20	04	DEC 21,1974	
3,199	541,146	20	05	DEC 21,1974	
3,216	541,848	20	06	DEC 21,1974	2 GPM INJECTED
3,232	542,433	20	07	DEC 21,1974	DOWN D P
3,249	543,018	20	08	DEC 21,1974	
3,266	543,603	20	09	DEC 21,1974	
3,282	544,246	20	10	DEC 21,1974	
3,299	545,475	20	11	DEC 21,1974	

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3,315	549,512	20	12	DEC 21,1974	
3,332	553,607	20	13	DEC 21,1974	
3,348	557,410	20	14	DEC 21,1974	
3,365	561,271	20	15	DEC 21,1974	
3,382	565,074	20	16	DEC 21,1974	
3,398	568,819	20	17	DEC 21,1974	
3,415	572,212	20	18	DEC 21,1974	
3,431	575,722	20	19	DEC 21,1974	
3,448	579,233	20	20	DEC 21,1974	
3,465	582,801	20	21	DEC 21,1974	
3,481	586,019	20	22	DEC 21,1974	
3,498	589,471	20	23	DEC 21,1974	
3,514	592,747	20	24	DEC 21,1974	
3,531	596,024	20	25	DEC 21,1974	
3,547	599,241	20	26	DEC 21,1974	5 GPM INJECTED
3,564	602,342	20	27	DEC 21,1974	DOWN D P
3,581	605,501	20	28	DEC 21,1974	
3,597	609,421	20	29	DEC 21,1974	
3,614	615,254	20	30	DEC 21,1974	
3,630	620,963	20	31	DEC 21,1974	
3,647	626,613	20	32	DEC 21,1974	
3,663	631,973	20	33	DEC 21,1974	
3,680	637,507	20	34	DEC 21,1974	
3,697	642,925	20	35	DEC 21,1974	
3,713	648,227	20	36	DEC 21,1974	
3,730	653,295	20	37	DEC 21,1974	
3,746	658,130	20	38	DEC 21,1974	
3,763	663,082	20	39	DEC 21,1974	
3,779	667,684	20	40	DEC 21,1974	
3,796	672,403	20	41	DEC 21,1974	
3,813	677,005	20	42	DEC 21,1974	
3,829	681,607	20	43	DEC 21,1974	
3,846	686,035	20	44	DEC 21,1974	
3,862	690,462	20	45	DEC 21,1974	
3,879	695,064	20	46	DEC 21,1974	10 GPM INJECTED
3,895	699,550	20	47	DEC 21,1974	DOWN D P
3,912	704,152	20	48	DEC 21,1974	
3,929	716,969	20	49	DEC 21,1974	
3,945	730,193	20	50	DEC 21,1974	
3,962	742,718	20	51	DEC 21,1974	

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3,978	754,427	20	52	DEC 21,1974	
3,995	778,779	20	53	DEC 21,1974	
4,012	792,469	20	54	DEC 21,1974	
4,028	796,372	20	55	DEC 21,1974	5 GPM INJECTED
4,045	801,091	20	56	DEC 21,1974	DOWN D P
4,061	801,498	20	57	DEC 21,1974	
4,078	801,615	20	58	DEC 21,1974	
4,094	801,848	20	59	DEC 21,1974	
4,111	802,081	21	00	DEC 21,1974	
4,128	802,256	21	01	DEC 21,1974	
4,144	802,489	21	02	DEC 21,1974	
4,161	802,664	21	03	DEC 21,1974	
4,177	802,897	21	04	DEC 21,1974	
4,194	803,071	21	05	DEC 21,1974	
4,210	803,246	21	06	DEC 21,1974	START DECLINE
4,227	802,023	21	07	DEC 21,1974	
4,244	798,469	21	08	DEC 21,1974	
4,260	794,915	21	09	DEC 21,1974	
4,277	792,236	21	10	DEC 21,1974	
4,293	789,381	21	11	DEC 21,1974	
4,310	786,527	21	12	DEC 21,1974	
4,326	783,614	21	13	DEC 21,1974	
4,343	780,934	21	14	DEC 21,1974	
4,360	778,254	21	15	DEC 21,1974	
4,376	775,633	21	16	DEC 21,1974	
4,393	773,069	21	17	DEC 21,1974	
4,409	770,564	21	18	DEC 21,1974	
4,426	768,059	21	19	DEC 21,1974	
4,443	765,729	21	20	DEC 21,1974	
4,459	763,515	21	21	DEC 21,1974	
4,476	761,360	21	22	DEC 21,1974	
4,492	759,030	21	23	DEC 21,1974	
4,509	756,758	21	24	DEC 21,1974	
4,525	754,660	21	25	DEC 21,1974	
4,542	752,622	21	26	DEC 21,1974	
4,559	750,641	21	27	DEC 21,1974	
4,575	748,485	21	28	DEC 21,1974	
4,592	746,388	21	29	DEC 21,1974	
4,608	744,349	21	29	DEC 21,1974	
4,625	742,427	21	30	DEC 21,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
4.641	740.504	21	31	DEC 21,1974	
4.658	738.465	21	32	DEC 21,1974	
4.675	736.426	21	33	DEC 21,1974	
4.691	734.504	21	34	DEC 21,1974	
4.708	732.814	21	35	DEC 21,1974	
4.724	731.067	21	36	DEC 21,1974	
4.741	729.436	21	37	DEC 21,1974	60 GPM ANNULUS
4.757	727.746	21	38	DEC 21,1974	
4.774	726.231	21	39	DEC 21,1974	
4.791	724.600	21	40	DEC 21,1974	
4.807	722.969	21	41	DEC 21,1974	
4.824	721.396	21	42	DEC 21,1974	
4.840	719.765	21	43	DEC 21,1974	
4.857	718.192	21	44	DEC 21,1974	
4.874	716.736	21	45	DEC 21,1974	
4.890	715.163	21	46	DEC 21,1974	
4.907	713.765	21	47	DEC 21,1974	
4.923	712.250	21	48	DEC 21,1974	
4.940	710.735	21	49	DEC 21,1974	
4.956	709.279	21	50	DEC 21,1974	
4.973	707.881	21	51	DEC 21,1974	
4.990	706.657	21	52	DEC 21,1974	
5.006	705.318	21	53	DEC 21,1974	
5.023	704.036	21	54	DEC 21,1974	
5.039	702.871	21	55	DEC 21,1974	
5.056	701.589	21	56	DEC 21,1974	
5.072	700.308	21	57	DEC 21,1974	
5.089	699.201	21	58	DEC 21,1974	
5.106	698.094	21	59	DEC 21,1974	
5.122	696.929	22	00	DEC 21,1974	
5.139	695.822	22	01	DEC 21,1974	
5.155	694.715	22	02	DEC 21,1974	
5.172	693.608	22	03	DEC 21,1974	
5.188	692.443	22	04	DEC 21,1974	
5.205	691.336	22	05	DEC 21,1974	
5.222	690.229	22	06	DEC 21,1974	
5.238	689.122	22	07	DEC 21,1974	
5.255	688.132	22	08	DEC 21,1974	
5.271	687.200	22	09	DEC 21,1974	
5.288	686.093	22	10	DEC 21,1974	

JOB NUMBER
SPG-11210 AA

DATE OF JOB
DECEMBER 21, 1974

GAUGE/RUN NUMBER
98 DST NO, 29

DATE OF RUN
JANUARY 20, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
5,305	685,161	22	11	DEC 21,1974	
5,321	684.229	22	12	DEC 21,1974	
5,338	683,297	22	13	DEC 21,1974	
5,354	682,306	22	14	DEC 21,1974	
5,371	681.316	22	15	DEC 21,1974	
5,387	680,500	22	16	DEC 21,1974	
5,404	679,627	22	17	DEC 21,1974	
5,421	678,753	22	18	DEC 21,1974	
5,437	677,879	22	19	DEC 21,1974	
5,454	677,063	22	20	DEC 21,1974	
5,470	676,248	22	21	DEC 21,1974	
5,487	675,432	22	22	DEC 21,1974	
5,503	674,617	22	23	DEC 21,1974	
5,520	673.859	22	24	DEC 21,1974	
5,537	673.277	22	25	DEC 21,1974	
5,553	672.461	22	26	DEC 21,1974	
5,570	671,645	22	27	DEC 21,1974	
5,586	670,946	22	28	DEC 21,1974	
5,603	670.189	22	29	DEC 21,1974	
5,619	669,548	22	30	DEC 21,1974	
5,636	668,849	22	31	DEC 21,1974	
5,653	668.092	22	32	DEC 21,1974	
5,669	667,393	22	33	DEC 21,1974	
5,686	666,635	22	34	DEC 21,1974	
5,702	665.936	22	35	DEC 21,1974	
5,719	665,354	22	36	DEC 21,1974	START DECLINE
5,735	664,713	22	37	DEC 21,1974	
5,752	664.014	22	38	DEC 21,1974	
5.769	663,315	22	39	DEC 21,1974	
5,785	662,732	22	40	DEC 21,1974	
5,802	662,091	22	41	DEC 21,1974	
5,818	661,451	22	42	DEC 21,1974	
5,835	660,810	22	43	DEC 21,1974	
5,852	660.169	22	44	DEC 21,1974	
5,868	659.703	22	45	DEC 21,1974	
5,885	659.062	22	46	DEC 21,1974	
5,901	658,363	22	47	DEC 21,1974	
5,918	657.897	22	48	DEC 21,1974	
5,934	657,256	22	49	DEC 21,1974	
5,951	656,674	22	50	DEC 21,1974	

JOB NUMBER
SPG-11210 AA

DATE OF JOB
DECEMBER 21, 1974

GAUGE/RUN NUMBER
98 DST NO. 29

DATE OF RUN
JANUARY 20, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
5.968	656.033	22	51	DEC 21,1974	
5.984	655.450	22	52	DEC 21,1974	
6.001	654.868	22	53	DEC 21,1974	
6.017	654.343	22	54	DEC 21,1974	
6.034	653.761	22	55	DEC 21,1974	
6.050	653.295	22	56	DEC 21,1974	
6.067	652.829	22	57	DEC 21,1974	
6.084	652.246	22	58	DEC 21,1974	
6.100	651.722	22	59	DEC 21,1974	
6.117	651.314	23	00	DEC 21,1974	
6.133	650.848	23	01	DEC 21,1974	END OF TEST

371 POINTS REPORTED THIS RUN

JOHNSTON

Schlumberger

technical report

II B-1326

F.R. #09114 C

COMPANY ATLANTIC-RICHFIELD COMPANY **WELL** FEDERAL S. G. #17 **TEST NO.** 30 **COUNTY** RIO BLANCO **STATE** COLORADO

JOHNSTON
...found a better way

SURFACE INFORMATION

[illegible]iption (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool (12-28-74)	2103	-	-
CLOSED FOR INITIAL SHUT-IN	2105	-	-
FINISHED SHUT-IN	2135	-	-
RE-OPENED TOOL	2138	-	-
(12-29-74)			
STARTED INJECTING WATER AT 2 GAL/MIN.	0255	-	-
INCREASED INJECTION TO 5 GAL/MIN.	0315	-	-
INCREASED INJECTION TO 11 GAL/MIN.	0335	-	-
INCREASED INJECTION TO 20 GAL/MIN.	0355	-	-
INCREASED INJECTION TO 30 GAL/MIN.	0415	-	-
STOPPED INJECTIONS	0435	-	-
CLOSED TOOL	0522	-	-
PULLED PACKER LOOSE	0531	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER - FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested GREEN RIVER
Elevation 7036 Ft.
Net Productive Interval 51 Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 1920 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 298' I.D. -
Drill Pipe Length 1537' I.D. -
Packer Depth(s) 1865' & 1869' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure ______ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas ______
cc. Oil ______
cc. Water ______
cc. Mud ______
Tot. Liquid cc. ______
Gravity ______ °API @ ______ °F.
Gas/Oil Ratio ______ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202
C[illegible]any ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH
Well FEDERAL S. C. #17 Location 436' FWL & 181' FSL SEC. 16-3S-90W
Test Interval 1869' TO 1920' Test # 30 Date 12-28-74
County RIO BLANCO State COLORADO II B-1327
Technician TAYLOR (VERNAL) Test Approved By MR. MARK WILKERSON

Field Report No. 09114 C
No. Reports Requested 14 (13x)

DESCRIPTION	POINT	TIME OF DAY (12-28-74)	INCRE.	INSTRUMENT# 4372 N PRESSURE (P.S.I.G.)	INSTRUMENT# 32342 N PRESSURE (P.S.I.G.)
INITIAL HYDROSTATIC	1	-	-	607.8	623.4
PACKER SEAT	2	-	-	611.8	624.8
TOOL OPENED	3	2103	0	103.5	107.7
CLOSED FOR INITIAL SHUT-IN	4	2105	2	103.5	370.9
			4	579.9	589.6
			6	587.9	600.8
			8	589.2	602.3
			10	590.5	603.7
			12	590.5	603.7
			14	590.5	605.1
			16	590.5	605.1
			18	590.5	605.1
			20	590.5	605.1
			22	590.5	605.1
			24	590.5	605.1
			26	590.5	605.1
			28	590.5	605.1
			30	590.5	605.1
			32	590.5	605.1
INITIAL SHUT-IN	5	2136	33	590.5	605.1
			34	590.5	606.5
TOOL CYCLED	6	2138	35	590.5	606.5
INITIAL FLOW-TOOL OPENED	7	2139	36	329.7	416.1
			38	472.1	506.3
			40	525.3	554.3
			42	566.6	585.3
			44	582.5	596.6
			46	586.5	600.8
			48	587.9	602.3
			50	589.2	602.3
			52	589.2	603.7
			54	590.5	603.7
			56	590.5	603.7
			58	590.5	603.7
			60	590.5	603.7
			62	590.5	603.7
			64	590.5	603.7
			66	590.5	605.1
			68	590.5	605.1
			70	590.5	605.1
			72	590.5	605.1
			74	590.5	605.1
			76	590.5	605.1
			78	590.5	605.1
			80	590.5	605.1
			82	590.5	605.1
			84	590.5	605.1
			86	590.5	605.1
			88	590.5	605.1
			90	590.5	605.1
			92	590.5	605.1
			94	590.5	605.1
			96	590.5	605.1
			98	590.5	605.1

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT # 4372 N PRESSURE (P.S.I.G.)	INSTRUMENT# 32342 N PRESSURE (P.S.I.G.
			100	590.5	605.1
			102	590.5	605.1
			104	590.5	605.1
			106	590.5	605.1
			108	590.5	605.1
			110	590.5	605.1
			112	590.5	605.1
			114	590.5	605.1
			116	590.5	605.1
			118	590.5	605.1
			120	590.5	605.1
			122	590.5	605.1
			124	590.5	605.1
			126	590.5	605.1
			128	590.5	605.1
			130	590.5	605.1
			132	590.5	605.1
			134	590.5	605.1
			136	590.5	605.1
			138	590.5	605.1
			140	590.5	605.1
			142	590.5	605.1
			144	590.5	605.1
			146	590.5	605.1
			148	590.5	605.1
			150	590.5	605.1
			152	590.5	605.1
			154	590.5	605.1
			156	590.5	605.1
			158	590.5	605.1
			160	590.5	605.1
			162	590.5	605.1
			164	590.5	605.1
			166	590.5	605.1
STARTED JETTING WATER	8	2350	167	590.5	605.1
			168	599.8	607.9
PRESSURE INCREASE DUE TO JETTING	9	2352	169	611.8	622.0
			170	577.2	602.3
PRESSURE DECREASE DUE TO JETTING	10		171	567.9	556.7
			172	570.9	593.8
			174	579.9	593.8
			176	579.9	593.8
			178	579.9	593.8
			180	579.9	593.8
			182	579.9	593.8
			184	579.9	593.8
			186	579.9	593.8
			188	578.5	593.8
			190	578.5	593.8
			192	578.5	593.8
			194	578.5	593.8
			196	578.5	593.8
			198	578.5	593.8

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT# 4372 N PRESSURE(P.S.I.G.)	INSTRUMENT# 32342 N PRESSURE(P.S.I.G.)
			200	578.5	593.8
			202	578.5	593.8
			204	578.5	593.8
			206	578.5	593.8
			208	578.5	593.8
			210	578.5	593.8
			212	578.5	593.8
			214	578.5	593.8
			216	578.5	592.4
			218	578.5	592.4
			220	578.5	592.4
			222	578.5	592.4
			224	578.5	592.4
			226	577.2	591.0
			228	577.2	592.4
			230	577.2	592.4
			232	577.2	592.4
			234	577.2	592.4
			236	577.2	592.4
			238	577.2	592.4
		(12-29-74)			
JETTING WATER	11	0102	239	577.2	592.4
			240	563.9	578.3
NISHED JETTING WATER	12	0104	241	547.9	565.4
			242	579.9	593.8
			244	587.9	600.8
			246	589.2	602.3
			248	589.2	602.3
			250	589.2	602.3
			252	589.2	602.3
			254	589.2	602.3
			256	589.2	602.3
			258	589.2	602.3
			260	590.5	602.3
			262	590.5	602.3
			264	590.5	603.7
			266	590.5	603.7
			268	590.5	603.7
			270	590.5	603.7
			272	590.5	603.7
			274	590.5	603.7
			276	590.5	603.7
			278	590.5	603.7
			280	590.5	603.7
			282	590.5	603.7
			284	590.5	603.7
			286	590.5	603.7
			288	590.5	603.7
			290	590.5	603.7
			292	590.5	603.7
			294	591.8	603.7
			296	591.8	603.7
			298	591.8	603.7
			300	591.8	603.7

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT # 4372 N PRESSURE (P.S.I.G.)	INSTRUMENT # 32342 N PRESSURE (P.S.I.G.)
			302	591.8	603.7
			304	591.8	603.7
			306	591.8	603.7
			308	591.8	603.7
			310	591.8	603.7
			312	591.8	603.7
			314	591.8	603.7
			316	591.8	603.7
			318	591.8	603.7
			320	591.8	603.7
			322	591.8	603.7
			324	591.8	603.7
			326	591.8	603.7
			328	591.8	603.7
			330	591.8	603.7
			332	591.8	603.7
			334	591.8	603.7
			336	591.8	603.7
			338	591.8	603.7
			340	591.8	603.7
			342	591.8	603.7
			344	591.8	603.7
			346	591.8	603.7
			348	591.8	603.7
			350	591.8	603.7
			352	591.8	603.7
STARTED INJECTION 2 GAL/MIN.			354	591.8	603.7
			356	591.8	603.7
			358	593.2	605.1
			360	593.2	605.1
			362	593.2	605.1
			364	593.2	606.5
			366	593.2	606.5
			368	594.5	606.5
			370	594.5	606.5
			372	594.5	606.5
			374	594.5	606.5
STARTED 5 GAL/MIN. RATE	13	0318	375	594.5	606.5
			376	595.8	607.9
			378	597.2	609.3
			380	597.2	609.3
			382	597.2	609.3
			384	597.2	609.3
			386	597.2	609.3
			388	597.2	609.3
			390	597.2	609.3
			392	597.2	609.3
			394	597.2	609.3
STARTED 11 GAL/MIN. RATE	14	0338	395	597.2	609.3
			396	603.8	613.5
			398	606.5	617.8
			400	607.8	619.2
			402	609.1	619.2
			404	609.1	620.6
			406	609.1	620.6

II B-1331

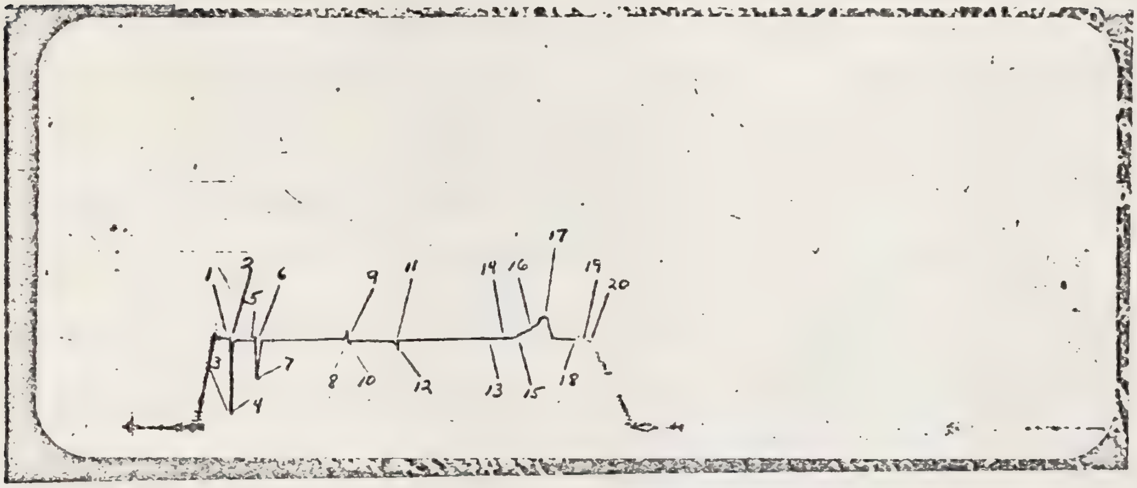
FIELD REPORT NO. 09114 C

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT # 4372 N PRESSURE (P.S.I.G.)	INSTRUMENT# 32342 N PRESSURE (P.S.I.G.)
			408	610.5	620.6
			410	610.5	620.6
			412	610.5	620.6
STARTED 20 GAL/MIN. RATE	15	0357	414	610.5	620.6
			416	623.8	631.9
			418	629.1	637.5
			420	634.4	643.2
			422	638.4	647.4
			424	641.1	648.8
			426	643.7	651.6
			428	647.7	655.8
			430	651.7	658.7
			432	655.7	662.9
STARTED 30 GAL/MIN. RATE	16	0417	434	661.0	665.7
			436	683.7	689.7
			438	697.0	701.0
			440	706.3	713.7
			442	719.6	722.1
			444	724.9	727.8
			446	728.9	732.0
			448	736.9	740.5
			450	744.9	747.5
			452	751.5	753.2
FINISHED INJECTION - STARTED PRESSURE FALL OFF	17	0437	454	756.8	758.8
			456	707.6	717.9
			458	661.0	677.0
			460	635.8	651.6
			462	618.5	633.3
			464	607.8	622.0
			466	602.5	616.4
			468	599.8	612.1
			470	598.5	610.7
			472	597.2	609.3
			474	597.2	609.3
			476	597.2	609.3
			478	597.2	609.3
			480	597.2	609.3
			482	595.8	607.9
			484	595.8	607.9
			486	595.8	607.9
			488	595.8	607.9
			490	595.8	607.9
			492	595.8	607.9
			494	595.8	606.5
			496	594.5	606.5
			498	594.5	606.5
CLOSED TOOL	18	0523	500	594.5	606.5
			502	595.8	607.9
			504	595.8	607.9
			506	595.8	607.9
PULLED PACKER LOOSE	19	0531	508	595.8	607.9
FINAL HYDROSTATIC	20	-	-	579.9	593.8

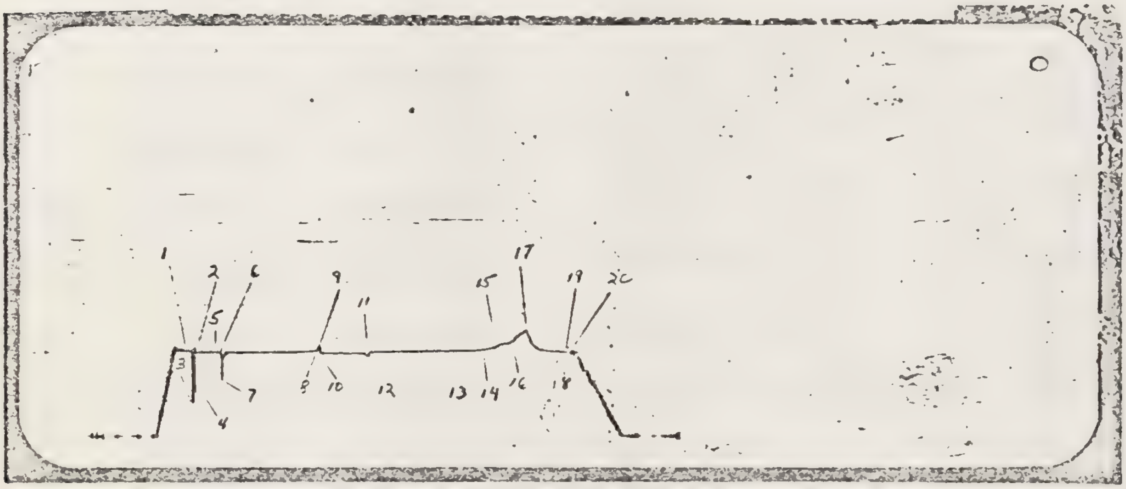
DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT# 4372 N PRESSURE(P.S.I.G.)	INSTRUMENT# 32342 N PRESSURE(P.S.I.G.)
CAPACITY (P.S.I.G.)				2800	2800
INSTRUMENT DEPTH				1845'	1873'
INSTRUMENT OPENING				INSIDE	OUTSIDE

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

FIELD REPORT NO.	RECORDER NO.
09114 C	4372 N
CAPACITY	REPORTS REQUESTED
2800#	14 +



FIELD REPORT NO.	RECORDER NO.
09114 C	32342 N
CAPACITY	REPORTS REQUESTED
2800#	14 +



DST 30
1920

PRESSURE GAUGE DRILL STEM TEST SHEET

307/235-5757

Job No. SPG 1121088 Date 12/28/74 Run DST #30 Office Casper, Wyoming

Customer Arco ET AL Location

State Colorado County/Parish Rio Blanco

Well Sorghum Gulch No. 17 Field

USE MILITARY TIME FOR ALL TIMES

		Time	Date		Time	Date	Time Charged
Arrive: Well/~~Dock~~	1.	1100	12/28/74	2.			
Depart: Well/~~Dock~~	1.	0900	12/29/74	2.			22 Hrs.
Gauge Start in Hole	1.	1834	12/28/74	2.			
Gauge Out of Hole	1.	0816	12/29/74	2.			14 Hrs.

No. Trips ONE Miles 90 Total Mileage 90

Top Gauge # 197 Element # 35991 Range 1400 Time Mode 1 min

Btm. Gauge # 98 Element # 29001N Range 2500 Time Mode 1 min

Type Tool DST Test Depth 1869' to 1920' Zero Point Ground level

Packer Depth 1869' Tail Pipe Depth 1920' Top Gauge Depth 1828'

Bottom Hole Temp. 96° F Atmos. Temp. 21° F Bottom Gauge Depth 1880'

TIME INFORMATION	Time	Date	PRESSURE INFORMATION	
On Bottom	2059	12/28/74	Initial Hydrostatic ~~Mud~~	602
Packer Set	2059	12/28/74	Initial Draw Down	
Initial Open	2102	12/28/74	Initial Build-Up	602
Initial Shut-In	2105	12/28/74	Final Flow	43
Start Flow	2138	12/28/74	Final Build-Up	
Final Shut-In	0522	12/29/74	Final Hydrostatic ~~Mud~~	602
Packer Unseated	0531	12/29/74	Mud Weight	

TIME OF SURFACE NULLS

Top Gauge 1834 1835 1836 Bottom Gauge 1842 1843 1844

Remarks Drill Stem Test in water. drilling fluid SOAP AND WATER NOT MUD.

SP-423

II B-1335

Mike Elmore (OKC)
Operator

JOB NUMBER
SPG-11210-BB

DATE OF JOB
12-28-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT S-G SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 197 WITH 1400 LB. ELEMENT

GAUGE DEPTH IS 1828 FT. OUTSIDE DRILL PIPE

ABOVE PACKER

TEST INTERVAL SURFACE TO 1828 FT.

PACKER DEPTH 1869 FT.

INITIAL HYDROSTATIC IS 603.424 PSI

FINAL HYDROSTATIC IS 603.424 PSI.

II B-1336

494 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-BB

DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
197 DST NO, 30

DATE OF RUN
1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	603,768	21	06	DEC 28,1974	INITIAL SHUTIN
,017	603,830	21	07	DEC 28,1974	
,033	604,018	21	08	DEC 28,1974	
,050	604,143	21	09	DEC 28,1974	
,067	604,268	21	10	DEC 28,1974	
,083	604,362	21	11	DEC 28,1974	
,100	604,456	21	12	DEC 28,1974	
,117	604,487	21	13	DEC 28,1974	
,133	604,518	21	14	DEC 28,1974	
,150	604,612	21	15	DEC 28,1974	
,167	604,612	21	16	DEC 28,1974	
,183	604,643	21	17	DEC 28,1974	
,200	604,706	21	18	DEC 28,1974	
,217	604,768	21	19	DEC 28,1974	
,233	604,768	21	20	DEC 28,1974	
,250	604,768	21	21	DEC 28,1974	
,267	604,800	21	22	DEC 28,1974	
,283	604,831	21	23	DEC 28,1974	
,300	604,831	21	24	DEC 28,1974	
,317	604,862	21	25	DEC 28,1974	
,333	604,925	21	26	DEC 28,1974	
,350	604,893	21	27	DEC 28,1974	
,367	604,925	21	28	DEC 28,1974	
,383	604,925	21	29	DEC 28,1974	
,400	604,956	21	30	DEC 28,1974	
,417	604,956	21	31	DEC 28,1974	
,433	604,956	21	32	DEC 28,1974	
,450	604,956	21	33	DEC 28,1974	
,467	604,987	21	34	DEC 28,1974	END SHUT IN

29 POINTS REPORTED THIS RUN

JOB NUMBER
8PG-11210-BB

DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
197 DST NO. 30

DATE OF RUN
1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	604,925	21	38	DEC 28,1974	OPEN TO FLOW
,017	605,112	21	39	DEC 28,1974	
,033	605,144	21	40	DEC 28,1974	
,050	605,175	21	41	DEC 28,1974	
,067	605,206	21	42	DEC 28,1974	
,083	605,206	21	43	DEC 28,1974	
,100	605,206	21	44	DEC 28,1974	
,117	605,237	21	45	DEC 28,1974	
,133	605,206	21	46	DEC 28,1974	
,150	605,237	21	47	DEC 28,1974	
,167	605,237	21	48	DEC 28,1974	
,183	605,269	21	49	DEC 28,1974	
,200	605,237	21	50	DEC 28,1974	
,217	605,269	21	51	DEC 28,1974	
,233	605.300	21	52	DEC 28,1974	
,250	605.300	21	53	DEC 28,1974	
,267	605,269	21	54	DEC 28,1974	
,283	605,269	21	55	DEC 28,1974	
,300	605.331	21	56	DEC 28,1974	
,317	605,331	21	57	DEC 28,1974	
,333	605.300	21	58	DEC 28,1974	
,350	605,331	21	59	DEC 28,1974	
,367	605,362	22	00	DEC 28,1974	
,383	605,362	22	01	DEC 28,1974	
,400	605,362	22	02	DEC 28,1974	
,417	605,362	22	03	DEC 28,1974	
,433	605,394	22	04	DEC 28,1974	
,450	605,394	22	05	DEC 28,1974	
,467	605,394	22	06	DEC 28,1974	
,483	605,425	22	07	DEC 28,1974	
,500	605,425	22	08	DEC 28,1974	
,517	605,488	22	09	DEC 28,1974	
,533	605,425	22	10	DEC 28,1974	END RECOVERY
,550	605,456	22	11	DEC 28,1974	
,567	605,456	22	12	DEC 28,1974	
,583	605,488	22	13	DEC 28,1974	
,600	605,456	22	14	DEC 28,1974	
,617	605,488	22	15	DEC 28,1974	
,633	605,519	22	16	DEC 28,1974	
,650	605,488	22	17	DEC 28,1974	

JOB NUMBER
SPG-11210-BB

DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
197 DST NO. 30

DATE OF RUN
1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
.667	605.488	22	18	DEC 28,1974	
.683	605.488	22	19	DEC 28,1974	
.700	605.519	22	20	DEC 28,1974	
.717	605.550	22	21	DEC 28,1974	
.733	605.550	22	22	DEC 28,1974	
.750	605.550	22	23	DEC 28,1974	
.767	605.550	22	24	DEC 28,1974	
.783	605.550	22	25	DEC 28,1974	
.800	605.581	22	26	DEC 28,1974	
.817	605.550	22	27	DEC 28,1974	
.833	605.613	22	28	DEC 28,1974	
.850	605.581	22	29	DEC 28,1974	
.867	605.581	22	30	DEC 28,1974	
.883	605.581	22	31	DEC 28,1974	
.900	605.613	22	32	DEC 28,1974	
.917	605.581	22	33	DEC 28,1974	
.933	605.613	22	34	DEC 28,1974	
.950	605.644	22	35	DEC 28,1974	
.967	605.675	22	36	DEC 28,1974	
.983	605.675	22	37	DEC 28,1974	
1.000	605.675	22	38	DEC 28,1974	
1.017	605.675	22	39	DEC 28,1974	
1.033	605.675	22	40	DEC 28,1974	
1.050	605.675	22	41	DEC 28,1974	
1.067	605.706	22	42	DEC 28,1974	
1.083	605.706	22	43	DEC 28,1974	
1.100	605.706	22	44	DEC 28,1974	
1.117	605.675	22	45	DEC 28,1974	
1.133	605.675	22	46	DEC 28,1974	
1.150	605.738	22	47	DEC 28,1974	
1.167	605.738	22	48	DEC 28,1974	
1.183	605.738	22	49	DEC 28,1974	
1.200	605.738	22	50	DEC 28,1974	
1.217	605.769	22	51	DEC 28,1974	
1.233	605.738	22	52	DEC 28,1974	
1.250	605.769	22	53	DEC 28,1974	
1.267	605.769	22	54	DEC 28,1974	
1.283	605.738	22	55	DEC 28,1974	
1.300	605.800	22	56	DEC 28,1974	
1.317	605.769	22	57	DEC 28,1974	

JOB NUMBER
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DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
197 DST NO, 30

DATE OF RUN
1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,333	605,738	22	58	DEC 28,1974	
1,350	605,800	22	59	DEC 28,1974	
1,367	605,831	23	00	DEC 28,1974	
1,383	605,831	23	01	DEC 28,1974	
1,400	605,831	23	02	DEC 28,1974	
1,417	605,831	23	03	DEC 28,1974	
1,433	605,831	23	04	DEC 28,1974	
1,450	605,831	23	05	DEC 28,1974	
1,467	605,831	23	06	DEC 28,1974	
1,483	605,831	23	07	DEC 28,1974	
1,500	605,831	23	08	DEC 28,1974	
1,517	605,831	23	09	DEC 28,1974	
1,533	605,831	23	10	DEC 28,1974	
1,550	605,925	23	11	DEC 28,1974	
1,567	605.863	23	12	DEC 28,1974	
1,583	605,894	23	13	DEC 28,1974	
1,600	605,894	23	14	DEC 28,1974	
1,617	605.894	23	15	DEC 28,1974	
1,633	605,894	23	16	DEC 28,1974	
1,650	605,957	23	17	DEC 28,1974	
1,667	605,957	23	18	DEC 28,1974	
1,683	605,925	23	19	DEC 28,1974	
1,700	605,957	23	20	DEC 28,1974	
1,717	605,957	23	21	DEC 28,1974	
1,733	605,957	23	22	DEC 28,1974	
1,750	605,957	23	23	DEC 28,1974	
1,767	606,019	23	24	DEC 28,1974	
1,783	605,988	23	25	DEC 28,1974	
1,800	605,988	23	26	DEC 28,1974	
1,817	605,957	23	27	DEC 28,1974	
1,833	605,988	23	28	DEC 28,1974	
1,850	606,019	23	29	DEC 28,1974	
1,867	605,988	23	30	DEC 28,1974	
1,883	606,019	23	31	DEC 28,1974	
1,900	606,019	23	32	DEC 28,1974	
1,917	606,082	23	33	DEC 28,1974	
1,933	606,050	23	34	DEC 28,1974	
1,950	606,050	23	35	DEC 28,1974	
1,967	606,050	23	36	DEC 28,1974	
1,983	606,019	23	37	DEC 28,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,000	606,050	23	38	DEC 28,1974	
2,017	606,050	23	39	DEC 28,1974	
2,033	606,082	23	40	DEC 28,1974	
2,050	606,082	23	41	DEC 28,1974	
2,067	606,082	23	42	DEC 28,1974	
2,083	606,082	23	43	DEC 28,1974	
2,100	606,082	23	44	DEC 28,1974	
2,117	606,113	23	45	DEC 28,1974	
2,133	606,082	23	46	DEC 28,1974	
2,150	606,144	23	47	DEC 28,1974	
2,167	606,113	23	48	DEC 28,1974	
2,183	606,144	23	49	DEC 28,1974	START AIR JET
2,200	606,144	23	50	DEC 28,1974	DOWN DRILLPIPE
2,217	606,175	23	51	DEC 28,1974	
2,233	606,175	23	52	DEC 28,1974	
2,250	606,144	23	53	DEC 28,1974	
2,267	606,144	23	54	DEC 28,1974	
2,283	606,144	23	55	DEC 28,1974	
2,300	606,144	23	56	DEC 28,1974	
2,317	606,207	23	57	DEC 28,1974	
2,333	606,207	23	58	DEC 28,1974	
2,350	606,175	23	59	DEC 28,1974	
2,367	606,175	00	00	DEC 29,1974	
2,383	606,207	00	01	DEC 29,1974	
2,400	606,207	00	02	DEC 29,1974	
2,417	606,175	00	03	DEC 29,1974	
2,433	606,207	00	04	DEC 29,1974	
2,450	606,207	00	05	DEC 29,1974	
2,467	606,238	00	06	DEC 29,1974	
2,483	606,238	00	07	DEC 29,1974	
2,500	606,238	00	08	DEC 29,1974	
2,517	606,269	00	09	DEC 29,1974	
2,533	606,207	00	10	DEC 29,1974	
2,550	606,207	00	11	DEC 29,1974	
2,567	606,207	00	12	DEC 29,1974	
2,583	606,207	00	13	DEC 29,1974	
2,600	606,238	00	14	DEC 29,1974	
2,617	606,238	00	15	DEC 29,1974	
2,633	606,269	00	16	DEC 29,1974	
2,650	606,300	00	17	DEC 29,1974	

JOB NUMBER
SPG-11210-88

DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
197 DST NO. 30

DATE OF RUN
1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2.667	606.300	00	18	DEC 29,1974	
2.683	606.300	00	19	DEC 29,1974	
2.700	606.238	00	20	DEC 29,1974	
2.717	606.269	00	21	DEC 29,1974	
2.733	606.300	00	22	DEC 29,1974	
2.750	606.300	00	23	DEC 29,1974	
2.767	606.300	00	24	DEC 29,1974	
2.783	606.269	00	25	DEC 29,1974	
2.800	606.269	00	26	DEC 29,1974	
2.817	606.269	00	27	DEC 29,1974	
2.833	606.269	00	28	DEC 29,1974	
2.850	606.300	00	29	DEC 29,1974	
2.867	606.363	00	30	DEC 29,1974	
2.883	606.332	00	31	DEC 29,1974	
2.900	606.332	00	32	DEC 29,1974	
2.917	606.363	00	33	DEC 29,1974	
2.933	606.300	00	34	DEC 29,1974	
2.950	606.332	00	35	DEC 29,1974	
2.967	606.363	00	36	DEC 29,1974	
2.983	606.363	00	37	DEC 29,1974	
3.000	606.332	00	38	DEC 29,1974	
3.017	606.332	00	39	DEC 29,1974	
3.033	606.363	00	40	DEC 29,1974	
3.050	606.394	00	41	DEC 29,1974	
3.067	606.363	00	42	DEC 29,1974	
3.083	606.332	00	43	DEC 29,1974	
3.100	606.363	00	44	DEC 29,1974	
3.117	606.394	00	45	DEC 29,1974	
3.133	606.394	00	46	DEC 29,1974	
3.150	606.363	00	47	DEC 29,1974	
3.167	606.394	00	48	DEC 29,1974	
3.183	606.394	00	49	DEC 29,1974	
3.200	606.394	00	50	DEC 29,1974	
3.217	606.426	00	51	DEC 29,1974	
3.233	606.426	00	52	DEC 29,1974	
3.250	606.426	00	53	DEC 29,1974	
3.267	606.394	00	54	DEC 29,1974	
3.283	606.426	00	55	DEC 29,1974	
3.300	606.426	00	56	DEC 29,1974	
3.317	606.426	00	57	DEC 29,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
3.333	606.426	00	58	DEC 29,1974	
3.350	606.394	00	59	DEC 29,1974	END JETTING
3.367	606.457	01	00	DEC 29,1974	DOWN DRILLPIPE
3.383	606.457	01	01	DEC 29,1974	
3.400	606.457	01	02	DEC 29,1974	
3.417	606.457	01	03	DEC 29,1974	
3.433	606.488	01	04	DEC 29,1974	
3.450	606.457	01	05	DEC 29,1974	
3.467	606.488	01	06	DEC 29,1974	
3.483	606.488	01	07	DEC 29,1974	
3.500	606.457	01	08	DEC 29,1974	
3.517	606.488	01	09	DEC 29,1974	
3.533	606.488	01	10	DEC 29,1974	
3.550	606.519	01	11	DEC 29,1974	
3.567	606.488	01	12	DEC 29,1974	
3.583	606.519	01	13	DEC 29,1974	
3.600	606.488	01	14	DEC 29,1974	
3.617	606.519	01	15	DEC 29,1974	
3.633	606.519	01	16	DEC 29,1974	
3.650	606.551	01	17	DEC 29,1974	
3.667	606.551	01	18	DEC 29,1974	
3.683	606.519	01	19	DEC 29,1974	
3.700	606.551	01	20	DEC 29,1974	
3.717	606.551	01	21	DEC 29,1974	
3.733	606.551	01	22	DEC 29,1974	
3.750	606.551	01	23	DEC 29,1974	
3.767	606.582	01	24	DEC 29,1974	
3.783	606.551	01	25	DEC 29,1974	
3.800	606.551	01	26	DEC 29,1974	
3.817	606.551	01	27	DEC 29,1974	
3.833	606.613	01	28	DEC 29,1974	
3.850	606.582	01	29	DEC 29,1974	
3.867	606.551	01	30	DEC 29,1974	
3.883	606.551	01	31	DEC 29,1974	
3.900	606.582	01	32	DEC 29,1974	
3.917	606.613	01	33	DEC 29,1974	
3.933	606.582	01	34	DEC 29,1974	
3.950	606.582	01	35	DEC 29,1974	
3.967	606.644	01	36	DEC 29,1974	
3.983	606.644	01	37	DEC 29,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4.000	606.613	01	38	DEC 29,1974	
4.017	606.613	01	39	DEC 29,1974	
4.033	606.613	01	40	DEC 29,1974	
4.050	606.644	01	41	DEC 29,1974	
4.067	606.676	01	42	DEC 29,1974	
4.083	606.644	01	43	DEC 29,1974	
4.100	606.676	01	44	DEC 29,1974	
4.117	606.644	01	45	DEC 29,1974	
4.133	606.613	01	46	DEC 29,1974	
4.150	606.676	01	47	DEC 29,1974	
4.167	606.644	01	48	DEC 29,1974	
4.183	606.676	01	49	DEC 29,1974	
4.200	606.707	01	50	DEC 29,1974	
4.217	606.644	01	51	DEC 29,1974	
4.233	606.676	01	52	DEC 29,1974	
4.250	606.676	01	53	DEC 29,1974	
4.267	606.707	01	54	DEC 29,1974	
4.283	606.676	01	55	DEC 29,1974	
4.300	606.707	01	56	DEC 29,1974	
4.317	606.676	01	57	DEC 29,1974	
4.333	606.676	01	58	DEC 29,1974	
4.350	606.707	01	59	DEC 29,1974	
4.367	606.738	02	00	DEC 29,1974	
4.383	606.769	02	01	DEC 29,1974	
4.400	606.769	02	02	DEC 29,1974	
4.417	606.707	02	03	DEC 29,1974	
4.433	606.738	02	04	DEC 29,1974	
4.450	606.769	02	05	DEC 29,1974	
4.467	606.769	02	06	DEC 29,1974	
4.483	606.707	02	07	DEC 29,1974	60 GPM DOWN
4.500	606.894	02	08	DEC 29,1974	ANNULUS
4.517	609.208	02	09	DEC 29,1974	
4.533	612.147	02	10	DEC 29,1974	
4.550	614.680	02	11	DEC 29,1974	
4.567	616.868	02	12	DEC 29,1974	
4.583	618.525	02	13	DEC 29,1974	
4.600	619.964	02	14	DEC 29,1974	
4.617	621.214	02	15	DEC 29,1974	
4.633	622.402	02	16	DEC 29,1974	
4.650	623.559	02	17	DEC 29,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPCRT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4,667	624,560	02	18	DEC 29,1974	
4,683	625,404	02	19	DEC 29,1974	
4,700	626,217	02	20	DEC 29,1974	
4,717	626,873	02	21	DEC 29,1974	
4,733	627,561	02	22	DEC 29,1974	
4,750	628,093	02	23	DEC 29,1974	
4,767	628,562	02	24	DEC 29,1974	
4,783	629,093	02	25	DEC 29,1974	
4,800	629,437	02	26	DEC 29,1974	
4,817	629,812	02	27	DEC 29,1974	
4,833	630,156	02	28	DEC 29,1974	
4,850	630,500	02	29	DEC 29,1974	
4,867	630,813	02	30	DEC 29,1974	
4,883	631,032	02	31	DEC 29,1974	
4,900	631,344	02	32	DEC 29,1974	
4,917	631,626	02	33	DEC 29,1974	
4,933	631,688	02	34	DEC 29,1974	
4,950	631,938	02	35	DEC 29,1974	
4,967	632,032	02	36	DEC 29,1974	
4,983	632,063	02	37	DEC 29,1974	
5,000	632,282	02	38	DEC 29,1974	
5,017	632,626	02	39	DEC 29,1974	
5,033	632,845	02	40	DEC 29,1974	
5,050	633,127	02	41	DEC 29,1974	
5,067	633,408	02	42	DEC 29,1974	START DECLINE
5,083	633,127	02	43	DEC 29,1974	
5,100	630,281	02	44	DEC 29,1974	
5,117	627,374	02	45	DEC 29,1974	
5,133	624,872	02	46	DEC 29,1974	
5,150	622,684	02	47	DEC 29,1974	
5,167	620,558	02	48	DEC 29,1974	
5,183	618,744	02	49	DEC 29,1974	
5,200	617,275	02	50	DEC 29,1974	
5,217	615,962	02	51	DEC 29,1974	
5,233	614,899	02	52	DEC 29,1974	
5,250	614,023	02	53	DEC 29,1974	
5,267	613,241	02	54	DEC 29,1974	
5,283	612,554	02	55	DEC 29,1974	
5,300	611,928	02	56	DEC 29,1974	2 GPM DOWN
5,317	611,428	02	57	DEC 29,1974	DRILL PIPE

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
5.333	610.959	02	58	DEC 29,1974	
5.350	610.553	02	59	DEC 29,1974	
5.367	609.927	03	00	DEC 29,1974	
5.383	609.677	03	01	DEC 29,1974	
5.400	609.458	03	02	DEC 29,1974	
5.417	609.177	03	03	DEC 29,1974	
5.433	609.083	03	04	DEC 29,1974	
5.450	608.864	03	05	DEC 29,1974	
5.467	608.739	03	06	DEC 29,1974	
5.483	608.552	03	07	DEC 29,1974	
5.500	608.458	03	08	DEC 29,1974	
5.517	608.333	03	09	DEC 29,1974	
5.533	608.239	03	10	DEC 29,1974	
5.550	608.145	03	11	DEC 29,1974	
5.567	608.051	03	12	DEC 29,1974	
5.583	607.989	03	13	DEC 29,1974	
5.600	607.958	03	14	DEC 29,1974	
5.617	607.864	03	15	DEC 29,1974	
5.633	607.832	03	16	DEC 29,1974	5 GPM DOWN
5.650	607.770	03	17	DEC 29,1974	DRILL PIPE
5.667	607.801	03	18	DEC 29,1974	
5.683	607.739	03	19	DEC 29,1974	
5.700	607.676	03	20	DEC 29,1974	
5.717	607.645	03	21	DEC 29,1974	
5.733	607.645	03	22	DEC 29,1974	
5.750	607.582	03	23	DEC 29,1974	
5.767	607.551	03	24	DEC 29,1974	
5.783	607.520	03	25	DEC 29,1974	
5.800	607.520	03	26	DEC 29,1974	
5.817	607.426	03	27	DEC 29,1974	
5.833	607.426	03	28	DEC 29,1974	
5.850	607.457	03	29	DEC 29,1974	
5.867	607.489	03	30	DEC 29,1974	
5.883	607.426	03	31	DEC 29,1974	
5.900	607.426	03	32	DEC 29,1974	
5.917	607.395	03	33	DEC 29,1974	
5.933	607.426	03	34	DEC 29,1974	
5.950	607.363	03	35	DEC 29,1974	
5.967	607.426	03	36	DEC 29,1974	11 GPM DOWN
5.983	607.363	03	37	DEC 29,1974	DRILL PIPE

JOB NUMBER
SPG-11210-BB

DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
197 DST NO. 30

DATE OF RUN
1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6.000	607.363	03	38	DEC 29,1974	
6.017	607.363	03	39	DEC 29,1974	
6.033	607.363	03	40	DEC 29,1974	
6.050	607.363	03	41	DEC 29,1974	
6.067	607.332	03	42	DEC 29,1974	
6.083	607.332	03	43	DEC 29,1974	
6.100	607.363	03	44	DEC 29,1974	
6.117	607.301	03	45	DEC 29,1974	
6.133	607.332	03	46	DEC 29,1974	
6.150	607.301	03	47	DEC 29,1974	
6.167	607.301	03	48	DEC 29,1974	
6.183	607.301	03	49	DEC 29,1974	
6.200	607.301	03	50	DEC 29,1974	
6.217	607.301	03	51	DEC 29,1974	
6.233	607.301	03	52	DEC 29,1974	
6.250	607.301	03	53	DEC 29,1974	
6.267	607.332	03	54	DEC 29,1974	
6.283	607.332	03	55	DEC 29,1974	
6.300	607.332	03	56	DEC 29,1974	20 GPM DOWN
6.317	607.301	03	57	DEC 29,1974	DRILL PIPE
6.333	607.332	03	58	DEC 29,1974	
6.350	607.363	03	59	DEC 29,1974	
6.367	607.332	04	00	DEC 29,1974	
6.383	607.332	04	01	DEC 29,1974	
6.400	607.332	04	02	DEC 29,1974	
6.417	607.332	04	03	DEC 29,1974	
6.433	607.363	04	04	DEC 29,1974	
6.450	607.332	04	05	DEC 29,1974	
6.467	607.301	04	06	DEC 29,1974	
6.483	607.363	04	07	DEC 29,1974	
6.500	607.332	04	08	DEC 29,1974	
6.517	607.363	04	09	DEC 29,1974	
6.533	607.332	04	10	DEC 29,1974	
6.550	607.332	04	11	DEC 29,1974	
6.567	607.332	04	12	DEC 29,1974	
6.583	607.363	04	13	DEC 29,1974	
6.600	607.363	04	14	DEC 29,1974	
6.617	607.395	04	15	DEC 29,1974	
6.633	607.426	04	16	DEC 29,1974	30 GPM DOWN
6.650	607.363	04	17	DEC 29,1974	DRILL PIPE

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DATE OF JOB
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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6.667	607.363	04	18	DEC 29,1974	
6.683	607.363	04	19	DEC 29,1974	
6.700	607.363	04	20	DEC 29,1974	
6.717	607.395	04	21	DEC 29,1974	
6.733	607.395	04	22	DEC 29,1974	
6.750	607.426	04	23	DEC 29,1974	
6.767	607.457	04	24	DEC 29,1974	
6.783	607.426	04	25	DEC 29,1974	
6.800	607.395	04	26	DEC 29,1974	
6.817	607.489	04	27	DEC 29,1974	
6.833	607.426	04	28	DEC 29,1974	
6.850	607.489	04	29	DEC 29,1974	
6.867	607.457	04	30	DEC 29,1974	
6.883	607.520	04	31	DEC 29,1974	OVER FLOW
6.900	607.520	04	32	DEC 29,1974	30 GPM
6.917	607.520	04	33	DEC 29,1974	
6.933	607.489	04	34	DEC 29,1974	
6.950	607.520	04	35	DEC 29,1974	END OVERFLOW
6.967	607.520	04	36	DEC 29,1974	
6.983	607.520	04	37	DEC 29,1974	
7.000	607.489	04	38	DEC 29,1974	
7.017	607.520	04	39	DEC 29,1974	
7.033	607.520	04	40	DEC 29,1974	START DECLINE
7.050	607.489	04	41	DEC 29,1974	
7.067	607.457	04	42	DEC 29,1974	
7.083	607.520	04	43	DEC 29,1974	
7.100	607.426	04	44	DEC 29,1974	
7.117	607.457	04	45	DEC 29,1974	
7.133	607.426	04	46	DEC 29,1974	
7.150	607.426	04	47	DEC 29,1974	
7.167	607.489	04	48	DEC 29,1974	
7.183	607.489	04	49	DEC 29,1974	
7.200	607.457	04	50	DEC 29,1974	
7.217	607.426	04	51	DEC 29,1974	
7.233	607.457	04	52	DEC 29,1974	
7.250	607.426	04	53	DEC 29,1974	
7.267	607.426	04	54	DEC 29,1974	
7.283	607.426	04	55	DEC 29,1974	
7.300	607.457	04	56	DEC 29,1974	
7.317	607.457	04	57	DEC 29,1974	

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JOB NUMBER                                                    DATE OF JOB
SPG-11210-BB                                                     12-28-74

GAUGE/RUN NUMBER                                              DATE OF RUN
197  DST NO, 30                                                   1-15-75

                              SPERRY-SUN
                PRECISION SUBSURFACE PRESSURE GAUGE REPORT

   DELTA   PRESSURE                    TIME      DATE              COMMENTS
   TIME     (PSI)                     HR MIN

   7,333   607,457                    04  58 DEC 29,1974
   7,350   607,457                    04  59 DEC 29,1974
   7,367   607,457                    05  00 DEC 29,1974
   7,383   607,426                    05  01 DEC 29,1974
   7,400   607,426                    05  02 DEC 29,1974
   7,417   607,489                    05  03 DEC 29,1974
   7,433   607,457                    05  04 DEC 29,1974
   7,450   607,426                    05  05 DEC 29,1974
   7,467   607,426                    05  06 DEC 29,1974
   7,483   607,489                    05  07 DEC 29,1974
   7,500   607,489                    05  08 DEC 29,1974
   7,517   607,520                    05  09 DEC 29,1974
   7,533   607,520                    05  10 DEC 29,1974   END DECLINE
   7,550   607,489                    05  11 DEC 29,1974
   7,567   607,489                    05  12 DEC 29,1974
   7,583   607,520                    05  13 DEC 29,1974
   7,600   607,520                    05  14 DEC 29,1974
   7,617   607,520                    05  15 DEC 29,1974
   7,633   607,520                    05  16 DEC 29,1974
   7,650   607,582                    05  17 DEC 29,1974
   7,667   607,520                    05  18 DEC 29,1974
   7,683   607,489                    05  19 DEC 29,1974
   7,700   607,489                    05  20 DEC 29,1974
   7,717   607,457                    05  21 DEC 29,1974
   7,733   607,457                    05  22 DEC 29,1974   END OF TEST
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465 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-BB

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT S-G SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE 98 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1880 FT. INSIDE DRILL PIPE

BELOW PACKER

TEST INTERVAL 1869 FT. TO 1880 FT.

PACKER DEPTH 1869 FT.

INITIAL HYDROSTATIC IS 637.799 PSI

FINAL HYDROSTATIC IS 638.614 PSI

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JOB NUMBER
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98 DST NO. 30

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	349.483	21	06	DEC 28,1974	INITIAL SHUTIN
.017	569.755	21	07	DEC 28,1974	
.033	588.593	21	08	DEC 28,1974	
.050	607.549	21	09	DEC 28,1974	
.067	611.933	21	10	DEC 28,1974	
.083	614.205	21	11	DEC 28,1974	
.100	615.487	21	12	DEC 28,1974	
.117	616.186	21	13	DEC 28,1974	
.133	616.710	21	14	DEC 28,1974	
.150	617.001	21	15	DEC 28,1974	
.167	617.293	21	16	DEC 28,1974	
.183	617.409	21	17	DEC 28,1974	
.200	617.642	21	18	DEC 28,1974	
.217	617.759	21	19	DEC 28,1974	
.233	617.875	21	20	DEC 28,1974	
.250	617.933	21	21	DEC 28,1974	
.267	617.992	21	22	DEC 28,1974	
.283	618.108	21	23	DEC 28,1974	
.300	618.108	21	24	DEC 28,1974	
.317	618.166	21	25	DEC 28,1974	
.333	618.166	21	26	DEC 28,1974	
.350	618.166	21	27	DEC 28,1974	
.367	618.108	21	28	DEC 28,1974	
.383	618.108	21	29	DEC 28,1974	
.400	618.108	21	30	DEC 28,1974	
.417	618.225	21	31	DEC 28,1974	
.433	618.166	21	32	DEC 28,1974	
.450	618.225	21	33	DEC 28,1974	
.467	618.283	21	34	DEC 28,1974	END SHUT IN

29 POINTS REPORTED THIS RUN

JOB NUMBER
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98 DST NO. 30

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	432,911	21	38	DEC 28,1974	OPEN TO FLOW
,017	506,160	21	39	DEC 28,1974	
,033	539,332	21	40	DEC 28,1974	
,050	583.387	21	41	DEC 28,1974	
,067	596,433	21	42	DEC 28,1974	
,083	604,682	21	43	DEC 28,1974	
.100	609,714	21	44	DEC 28,1974	
,117	612,516	21	45	DEC 28,1974	
.133	614,030	21	46	DEC 28,1974	
.150	614.962	21	47	DEC 28,1974	
,167	615,545	21	48	DEC 28,1974	
.183	616,069	21	49	DEC 28,1974	
,200	616,360	21	50	DEC 28,1974	
,217	616,768	21	51	DEC 28,1974	
,233	616.943	21	52	DEC 28,1974	
.250	617.118	21	53	DEC 28,1974	
,267	617,118	21	54	DEC 28,1974	
,283	617.234	21	55	DEC 28,1974	
,300	617.409	21	56	DEC 28,1974	
,317	617,467	21	57	DEC 28,1974	
,333	617,467	21	58	DEC 28,1974	
,350	617,467	21	59	DEC 28,1974	
,367	617.584	22	00	DEC 28,1974	
,383	617,584	22	01	DEC 28,1974	
,400	617,642	22	02	DEC 28,1974	
,417	617,584	22	03	DEC 28,1974	
,433	617,700	22	04	DEC 28.1974	
,450	617,642	22	05	DEC 28,1974	
,467	617.642	22	06	DEC 28,1974	
,483	617,700	22	07	DEC 28,1974	
,500	617,700	22	08	DEC 28,1974	
,517	617,700	22	09	DEC 28,1974	
,533	617.759	22	10	DEC 28,1974	END RECOVERY
,550	617,700	22	11	DEC 28,1974	
.567	617.875	22	12	DEC 28,1974	
,583	617,759	22	13	DEC 28,1974	
,600	617,817	22	14	DEC 28,1974	
,617	617.817	22	15	DEC 28,1974	
,633	617.642	22	16	DEC 28,1974	
,650	617,759	22	17	DEC 28,1974	

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DATE OF JOB
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GAUGE/RUN NUMBER
98 DST NO. 30

DATE OF RUN
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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
.667	617.759	22	18	DEC 28,1974	
.683	617.875	22	19	DEC 28,1974	
.700	617.875	22	20	DEC 28,1974	
.717	617.875	22	21	DEC 28,1974	
.733	617.817	22	22	DEC 28,1974	
.750	617.700	22	23	DEC 28,1974	
.767	617.875	22	24	DEC 28,1974	
.783	617.933	22	25	DEC 28,1974	
.800	617.817	22	26	DEC 28,1974	
.817	617.933	22	27	DEC 28,1974	
.833	617.817	22	28	DEC 28,1974	
.850	617.875	22	29	DEC 28,1974	
.867	617.817	22	30	DEC 28,1974	
.883	617.875	22	31	DEC 28,1974	
.900	617.817	22	32	DEC 28,1974	
.917	617.875	22	33	DEC 28,1974	
.933	617.875	22	34	DEC 28,1974	
.950	617.875	22	35	DEC 28,1974	
.967	617.875	22	36	DEC 28,1974	
.983	617.817	22	37	DEC 28,1974	
1.000	617.933	22	38	DEC 28,1974	
1.017	617.875	22	39	DEC 28,1974	
1.033	617.700	22	40	DEC 28,1974	
1.050	617.933	22	41	DEC 28,1974	
1.067	617.933	22	42	DEC 28,1974	
1.083	617.875	22	43	DEC 28,1974	
1.100	617.875	22	44	DEC 28,1974	
1.117	617.933	22	45	DEC 28,1974	
1.133	617.875	22	46	DEC 28,1974	
1.150	617.933	22	47	DEC 28,1974	
1.167	617.875	22	48	DEC 28,1974	
1.183	617.933	22	49	DEC 28,1974	
1.200	617.992	22	50	DEC 28,1974	
1.217	617.875	22	51	DEC 28,1974	
1.233	617.933	22	52	DEC 28,1974	
1.250	617.933	22	53	DEC 28,1974	
1.267	617.933	22	54	DEC 28,1974	
1.283	617.875	22	55	DEC 28,1974	
1.300	617.992	22	56	DEC 28,1974	
1.317	617.875	22	57	DEC 28,1974	

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GAUGE/RUN NUMBER
98 DST NO. 30

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
1.333	617.933	22	58	DEC 28,1974	
1.350	617.933	22	59	DEC 28,1974	
1.367	617.933	23	00	DEC 28,1974	
1.383	617.933	23	01	DEC 28,1974	
1.400	617.992	23	02	DEC 28,1974	
1.417	617.933	23	03	DEC 28,1974	
1.433	617.992	23	04	DEC 28,1974	
1.450	618.341	23	05	DEC 28,1974	
1.467	617.933	23	06	DEC 28,1974	
1.483	618.050	23	07	DEC 28,1974	
1.500	617.933	23	08	DEC 28,1974	
1.517	618.108	23	09	DEC 28,1974	
1.533	617.933	23	10	DEC 28,1974	
1.550	617.992	23	11	DEC 28,1974	
1.567	618.050	23	12	DEC 28,1974	
1.583	617.933	23	13	DEC 28,1974	
1.600	618.166	23	14	DEC 28,1974	
1.617	617.992	23	15	DEC 28,1974	
1.633	617.992	23	16	DEC 28,1974	
1.650	618.807	23	17	DEC 28,1974	
1.667	617.992	23	18	DEC 28,1974	
1.683	618.108	23	19	DEC 28,1974	
1.700	618.050	23	20	DEC 28,1974	
1.717	617.992	23	21	DEC 28,1974	
1.733	617.933	23	22	DEC 28,1974	
1.750	618.108	23	23	DEC 28,1974	
1.767	617.933	23	24	DEC 28,1974	
1.783	617.875	23	25	DEC 28,1974	
1.800	617.817	23	26	DEC 28,1974	
1.817	617.875	23	27	DEC 28,1974	
1.833	617.875	23	28	DEC 28,1974	
1.850	617.817	23	29	DEC 28,1974	
1.867	617.875	23	30	DEC 28,1974	
1.883	617.933	23	31	DEC 28,1974	
1.900	617.875	23	32	DEC 28,1974	
1.917	617.817	23	33	DEC 28,1974	
1.933	617.875	23	34	DEC 28,1974	
1.950	617.875	23	35	DEC 28,1974	
1.967	617.875	23	36	DEC 28,1974	
1.983	617.817	23	37	DEC 28,1974	

JOB NUMBER SPG-11210-BB	DATE OF JOB 12-28-74
GAUGE/RUN NUMBER 98 DST NO, 30	DATE OF RUN 1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2,000	617,875	23	38	DEC 28,1974	
2,017	617,875	23	39	DEC 28,1974	
2,033	617,933	23	40	DEC 28,1974	
2,050	617,817	23	41	DEC 28,1974	
2,067	617,875	23	42	DEC 28,1974	
2,083	617,933	23	43	DEC 28,1974	
2,100	617,875	23	44	DEC 28,1974	
2,117	617.817	23	45	DEC 28,1974	
2,133	617,875	23	46	DEC 28,1974	
2.150	617,875	23	47	DEC 28,1974	
2,167	617,875	23	48	DEC 28,1974	
2,183	618,516	23	49	DEC 28,1974	START AIR JET
2,200	627.429	23	50	DEC 28,1974	DOWN DRILLPIPE
2,217	623.759	23	51	DEC 28,1974	
2,233	600.178	23	52	DEC 28,1974	
2.250	605.033	23	53	DEC 28,1974	
2.267	608.485	23	54	DEC 28,1974	
2,283	608,134	23	55	DEC 28,1974	
2,300	607.900	23	56	DEC 28,1974	
2,317	607.608	23	57	DEC 28,1974	
2,333	607,666	23	58	DEC 28,1974	
2,350	607,432	23	59	DEC 28,1974	
2,367	607,374	00	00	DEC 29,1974	
2,383	607,374	00	01	DEC 29,1974	
2,400	607,198	00	02	DEC 29,1974	
2.417	607,198	00	03	DEC 29,1974	
2,433	606,964	00	04	DEC 29,1974	
2,450	607.023	00	05	DEC 29,1974	
2.467	607.023	00	06	DEC 29,1974	
2,483	606.906	00	07	DEC 29,1974	
2,500	606.964	00	08	DEC 29,1974	
2,517	607.023	00	09	DEC 29,1974	
2,533	607.081	00	10	DEC 29,1974	
2.550	606,964	00	11	DEC 29,1974	
2.567	606.964	00	12	DEC 29,1974	
2,583	606.906	00	13	DEC 29,1974	
2,600	606.906	00	14	DEC 29,1974	
2,617	606,789	00	15	DEC 29,1974	
2.633	606.789	00	16	DEC 29,1974	
2,650	606,789	00	17	DEC 29,1974	

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GAUGE/RUN NUMBER
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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2,667	606,789	00	18	DEC 29,1974	
2,683	606,730	00	19	DEC 29,1974	
2,700	606,672	00	20	DEC 29,1974	
2,717	606,672	00	21	DEC 29,1974	
2,733	606,613	00	22	DEC 29,1974	
2,750	606,555	00	23	DEC 29,1974	
2,767	606,555	00	24	DEC 29,1974	
2,783	606,555	00	25	DEC 29,1974	
2,800	606,379	00	26	DEC 29,1974	
2,817	606,438	00	27	DEC 29,1974	
2,833	606,379	00	28	DEC 29,1974	
2,850	606,321	00	29	DEC 29,1974	
2,867	606,379	00	30	DEC 29,1974	
2,883	606,379	00	31	DEC 29,1974	
2,900	606,379	00	32	DEC 29,1974	
2,917	606,321	00	33	DEC 29,1974	
2,933	606,379	00	34	DEC 29,1974	
2,950	606,321	00	35	DEC 29,1974	
2,967	606,379	00	36	DEC 29,1974	
2,983	606,438	00	37	DEC 29,1974	
3,000	606,379	00	38	DEC 29,1974	
3,017	606,379	00	39	DEC 29,1974	
3,033	606,438	00	40	DEC 29,1974	
3,050	606,379	00	41	DEC 29,1974	
3,067	606,262	00	42	DEC 29,1974	
3,083	606,379	00	43	DEC 29,1974	
3,100	606,379	00	44	DEC 29,1974	
3,117	606,262	00	45	DEC 29,1974	
3,133	606,321	00	46	DEC 29,1974	
3,150	606,321	00	47	DEC 29,1974	
3,167	604,273	00	48	DEC 29,1974	
3,183	606,613	00	49	DEC 29,1974	
3,200	606,145	00	50	DEC 29,1974	
3,217	605,736	00	51	DEC 29,1974	
3,233	606,555	00	52	DEC 29,1974	
3,250	606,379	00	53	DEC 29,1974	
3,267	606,145	00	54	DEC 29,1974	
3,283	606,321	00	55	DEC 29,1974	
3,300	606,321	00	56	DEC 29,1974	
3,317	606,262	00	57	DEC 29,1974	

JOB NUMBER
SPG-11210-BB

DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
98 DST NO. 30

DATE OF RUN
1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
3.333	606.204	00	58	DEC 29,1974	
3.350	606.145	00	59	DEC 29,1974	END JETTING
3.367	605.970	01	00	DEC 29,1974	DOWN DRILLPIPE
3.383	591.928	01	01	DEC 29,1974	
3.400	603.161	01	02	DEC 29,1974	
3.417	610.767	01	03	DEC 29,1974	
3.433	613.448	01	04	DEC 29,1974	
3.450	614.147	01	05	DEC 29,1974	
3.467	615.021	01	06	DEC 29,1974	
3.483	615.370	01	07	DEC 29,1974	
3.500	615.545	01	08	DEC 29,1974	
3.517	615.487	01	09	DEC 29,1974	
3.533	615.836	01	10	DEC 29,1974	
3.550	615.836	01	11	DEC 29,1974	
3.567	615.836	01	12	DEC 29,1974	
3.583	615.428	01	13	DEC 29,1974	
3.600	616.069	01	14	DEC 29,1974	
3.617	616.069	01	15	DEC 29,1974	
3.633	615.778	01	16	DEC 29,1974	
3.650	616.186	01	17	DEC 29,1974	
3.667	616.127	01	18	DEC 29,1974	
3.683	615.953	01	19	DEC 29,1974	
3.700	616.302	01	20	DEC 29,1974	
3.717	616.244	01	21	DEC 29,1974	
3.733	616.360	01	22	DEC 29,1974	
3.750	616.419	01	23	DEC 29,1974	
3.767	616.594	01	24	DEC 29,1974	
3.783	616.652	01	25	DEC 29,1974	
3.800	616.652	01	26	DEC 29,1974	
3.817	616.652	01	27	DEC 29,1974	
3.833	616.652	01	28	DEC 29,1974	
3.850	616.652	01	29	DEC 29,1974	
3.867	616.768	01	30	DEC 29,1974	
3.883	616.768	01	31	DEC 29,1974	
3.900	616.827	01	32	DEC 29,1974	
3.917	616.827	01	33	DEC 29,1974	
3.933	616.827	01	34	DEC 29,1974	
3.950	616.768	01	35	DEC 29,1974	
3.967	616.768	01	36	DEC 29,1974	
3.983	616.768	01	37	DEC 29,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4.000	616.827	01 38	DEC 29,1974	
4.017	616.768	01 39	DEC 29,1974	
4.033	616.827	01 40	DEC 29,1974	
4.050	616.827	01 41	DEC 29,1974	
4.067	616.827	01 42	DEC 29,1974	
4.083	616.827	01 43	DEC 29,1974	
4.100	616.827	01 44	DEC 29,1974	
4.117	616.827	01 45	DEC 29,1974	
4.133	616.885	01 46	DEC 29,1974	
4.150	616.943	01 47	DEC 29,1974	
4.167	616.943	01 48	DEC 29,1974	
4.183	616.943	01 49	DEC 29,1974	
4.200	616.943	01 50	DEC 29,1974	
4.217	616.943	01 51	DEC 29,1974	
4.233	616.943	01 52	DEC 29,1974	
4.250	617.001	01 53	DEC 29,1974	
4.267	617.001	01 54	DEC 29,1974	
4.283	616.943	01 55	DEC 29,1974	
4.300	617.001	01 56	DEC 29,1974	
4.317	617.001	01 57	DEC 29,1974	
4.333	617.060	01 58	DEC 29,1974	
4.350	617.001	01 59	DEC 29,1974	
4.367	617.001	02 00	DEC 29,1974	
4.383	617.001	02 01	DEC 29,1974	
4.400	617.060	02 02	DEC 29,1974	
4.417	617.060	02 03	DEC 29,1974	
4.433	617.001	02 04	DEC 29,1974	
4.450	617.060	02 05	DEC 29,1974	
4.467	617.060	02 06	DEC 29,1974	
4.483	617.001	02 07	DEC 29,1974	60 GPM DOWN
4.500	617.060	02 08	DEC 29,1974	ANNULUS
4.517	617.060	02 09	DEC 29,1974	
4.533	617.060	02 10	DEC 29,1974	
4.550	617.118	02 11	DEC 29,1974	
4.567	617.001	02 12	DEC 29,1974	
4.583	617.118	02 13	DEC 29,1974	
4.600	617.118	02 14	DEC 29,1974	
4.617	617.118	02 15	DEC 29,1974	
4.633	617.118	02 16	DEC 29,1974	
4.650	617.118	02 17	DEC 29,1974	

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DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
98 DST NO. 30

DATE OF RUN
1-15-75

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME		DATE	COMMENTS
		HR	MIN		
4,667	617,118	02	18	DEC 29,1974	
4,683	617,118	02	19	DEC 29,1974	
4,700	617,118	02	20	DEC 29,1974	
4,717	617,118	02	21	DEC 29,1974	
4,733	617,176	02	22	DEC 29,1974	
4.750	617,118	02	23	DEC 29,1974	
4,767	617.118	02	24	DEC 29,1974	
4.783	617,176	02	25	DEC 29,1974	
4,800	617,176	02	26	DEC 29,1974	
4,817	617,118	02	27	DEC 29,1974	
4,833	617,118	02	28	DEC 29,1974	
4,850	617.118	02	29	DEC 29,1974	
4,867	617,118	02	30	DEC 29,1974	
4,883	617,118	02	31	DEC 29,1974	
4,900	617,176	02	32	DEC 29,1974	
4.917	617,176	02	33	DEC 29,1974	
4.933	617.234	02	34	DEC 29,1974	
4,950	617,176	02	35	DEC 29,1974	
4,967	617,234	02	36	DEC 29,1974	
4,983	617.176	02	37	DEC 29,1974	
5.000	617,176	02	38	DEC 29,1974	
5,017	617,176	02	39	DEC 29,1974	
5,033	617,176	02	40	DEC 29,1974	
5,050	617,176	02	41	DEC 29,1974	
5,067	617,234	02	42	DEC 29,1974	START DECLINE
5,083	617.176	02	43	DEC 29,1974	
5,100	617,176	02	44	DEC 29,1974	
5,117	617,176	02	45	DEC 29,1974	
5,133	617,176	02	46	DEC 29,1974	
5,150	617,176	02	47	DEC 29,1974	
5,167	617,176	02	48	DEC 29,1974	
5,183	617,176	02	49	DEC 29,1974	
5,200	617,176	02	50	DEC 29,1974	
5,217	617,176	02	51	DEC 29,1974	
5,233	617.176	02	52	DEC 29,1974	
5,250	617,176	02	53	DEC 29,1974	
5,267	617,176	02	54	DEC 29,1974	
5,283	617,176	02	55	DEC 29,1974	
5,300	617,176	02	56	DEC 29,1974	2 GPM DOWN
5,317	617,642	02	57	DEC 29,1974	DRILL PIPE

JOB NUMBER
SPG-11210-BB

DATE OF JOB
12-28-74

GAUGE/RUN NUMBER
98 DST NO. 30

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,333	618,574	02 58	DEC 29,1974	
5,350	618,866	02 59	DEC 29,1974	
5,367	619,099	03 00	DEC 29,1974	
5,383	619,099	03 01	DEC 29,1974	
5,400	619,390	03 02	DEC 29,1974	
5,417	619,390	03 03	DEC 29,1974	
5,433	619,390	03 04	DEC 29,1974	
5,450	619,448	03 05	DEC 29,1974	
5,467	619,448	03 06	DEC 29,1974	
5,483	619,448	03 07	DEC 29,1974	
5,500	619,448	03 08	DEC 29,1974	
5,517	619,448	03 09	DEC 29,1974	
5,533	619,448	03 10	DEC 29,1974	
5,550	619,448	03 11	DEC 29,1974	
5,567	619,448	03 12	DEC 29,1974	
5,583	619,506	03 13	DEC 29,1974	
5,600	619,506	03 14	DEC 29,1974	
5,617	619,565	03 15	DEC 29,1974	
5,633	619,565	03 16	DEC 29,1974	5 GPM DOWN
5,650	620,089	03 17	DEC 29,1974	DRILL PIPE
5,667	621,079	03 18	DEC 29,1974	
5,683	621,604	03 19	DEC 29,1974	
5,700	622,011	03 20	DEC 29,1974	
5,717	622,128	03 21	DEC 29,1974	
5,733	622,361	03 22	DEC 29,1974	
5,750	622,419	03 23	DEC 29,1974	
5,767	622,477	03 24	DEC 29,1974	
5,783	622,594	03 25	DEC 29,1974	
5,800	622,652	03 26	DEC 29,1974	
5,817	622,710	03 27	DEC 29,1974	
5,833	622,710	03 28	DEC 29,1974	
5,850	622,710	03 29	DEC 29,1974	
5,867	622,652	03 30	DEC 29,1974	
5,883	622,710	03 31	DEC 29,1974	
5,900	622,710	03 32	DEC 29,1974	
5,917	622,769	03 33	DEC 29,1974	
5,933	622,769	03 34	DEC 29,1974	
5,950	622,769	03 35	DEC 29,1974	
5,967	622,943	03 36	DEC 29,1974	11 GPM DOWN
5,983	625,740	03 37	DEC 29,1974	DRILL PIPE

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6,000	628,303	03	38	DEC 29,1974	
6,017	629.701	03	39	DEC 29,1974	
6,033	630.633	03	40	DEC 29,1974	
6,050	631,332	03	41	DEC 29,1974	
6,067	631,857	03	42	DEC 29,1974	
6,083	632,323	03	43	DEC 29,1974	
6,100	632,556	03	44	DEC 29,1974	
6,117	633,022	03	45	DEC 29,1974	
6,133	633,255	03	46	DEC 29,1974	
6,150	633,430	03	47	DEC 29,1974	
6,167	633,546	03	48	DEC 29,1974	
6,183	633,721	03	49	DEC 29,1974	
6,200	633,896	03	50	DEC 29,1974	
6,217	633,954	03	51	DEC 29,1974	
6,233	634,129	03	52	DEC 29,1974	
6.250	634.303	03	53	DEC 29,1974	
6,267	634,420	03	54	DEC 29,1974	
6,283	634.595	03	55	DEC 29,1974	
6.300	635.469	03	56	DEC 29,1974	20 GPM DOWN
6,317	641,818	03	57	DEC 29,1974	DRILL PIPE
6,333	646,013	03	58	DEC 29,1974	
6.350	648,867	03	59	DEC 29,1974	
6,367	651,314	04	00	DEC 29,1974	
6,383	653,819	04	01	DEC 29,1974	
6,400	656,382	04	02	DEC 29,1974	
6,417	658,771	04	03	DEC 29,1974	
6,433	660.752	04	04	DEC 29,1974	
6,450	661,334	04	05	DEC 29,1974	
6,467	662,732	04	06	DEC 29,1974	
6,483	664,247	04	07	DEC 29.1974	
6,500	665,470	04	08	DEC 29,1974	
6,517	667,509	04	09	DEC 29,1974	
6,533	669,199	04	10	DEC 29,1974	
6,550	671,296	04	11	DEC 29,1974	
6,567	673,393	04	12	DEC 29,1974	
6,583	675,549	04	13	DEC 29,1974	
6,600	677,646	04	14	DEC 29,1974	
6.617	679,685	04	15	DEC 29,1974	
6,633	686,792	04	16	DEC 29,1974	30 GPM DOWN
6,650	699,900	04	17	DEC 29,1974	DRILL PIPE

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JOB NUMBER                                                             DATE OF JOB
SPG-11210-BB                                                              12-28-74

GAUGE/RUN NUMBER                                                       DATE OF RUN
98  DST NO, 30                                                             1-15-75

                                   SPERRY-SUN
                     PRECISION SUBSURFACE PRESSURE GAUGE REPORT

     DELTA    PRESSURE                       TIME     DATE              COMMENTS
     TIME      (PSI)                        HR MIN

     6,667     703,220                      04  18 DEC 29,1974
     6.683     712,425                      04  19 DEC 29,1974
     6,700     720,289                      04  20 DEC 29,1974
     6,717     721,921                      04  21 DEC 29,1974
     6,733     729,319                      04  22 DEC 29,1974
     6,750     736,019                      04  23 DEC 29,1974
     6,767     738,582                      04  24 DEC 29,1974
     6,783     741.786                      04  25 DEC 29,1974
     6.800     744,116                      04  26 DEC 29,1974
     6,817     747,204                      04  27 DEC 29,1974
     6,833     748.777                      04  28 DEC 29,1974
     6,850     754.195                      04  29 DEC 29,1974
     6,867     759,379                      04  30 DEC 29,1974
     6.883     762.350                      04  31 DEC 29,1974   OVER FLOW
     6.900     764.797                      04  32 DEC 29,1974   30 GPM
     6,917     767,127                      04  33 DEC 29,1974
     6,933     770,623                      04  34 DEC 29,1974
     6,950     772.196                      04  35 DEC 29,1974   END OVERFLOW
     6,967     748,602                      04  36 DEC 29,1974
     6,983     725,533                      04  37 DEC 29,1974
     7,000     705,492                      04  38 DEC 29,1974
     7.017     688,482                      04  39 DEC 29,1974
     7,033     674,442                      04  40 DEC 29,1974   START DECLINE
     7.050     663.024                      04  41 DEC 29,1974
     7,067     653,586                      04  42 DEC 29,1974
     7,083     645,838                      04  43 DEC 29,1974
     7,100     639.488                      04  44 DEC 29,1974
     7,117     634,653                      04  45 DEC 29,1974
     7,133     631.099                      04  46 DEC 29,1974
     7,150     628,245                      04  47 DEC 29,1974
     7,167     626,264                      04  48 DEC 29,1974
     7,183     624,749                      04  49 DEC 29,1974
     7.200     623,701                      04  50 DEC 29,1974
     7,217     622,769                      04  51 DEC 29,1974
     7,233     622,244                      04  52 DEC 29,1974
     7,250     621,720                      04  53 DEC 29,1974
     7,267     621,371                      04  54 DEC 29,1974
     7,283     621,021                      04  55 DEC 29,1974
     7,300     620,788                      04  56 DEC 29,1974
     7,317     620,497                      04  57 DEC 29,1974
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JOB NUMBER
SPG-11210-BB

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GAUGE/RUN NUMBER
98 DST NO. 30

DATE OF RUN
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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
7.333	620.322	04	58	DEC 29.1974	
7.350	620.147	04	59	DEC 29,1974	
7.367	620.031	05	00	DEC 29,1974	
7.383	619.856	05	01	DEC 29,1974	
7.400	619.856	05	02	DEC 29,1974	
7.417	619.739	05	03	DEC 29,1974	
7.433	619.681	05	04	DEC 29,1974	
7.450	619.565	05	05	DEC 29,1974	
7.467	619.448	05	06	DEC 29,1974	
7.483	619.448	05	07	DEC 29,1974	
7.500	619.448	05	08	DEC 29,1974	
7.517	619.273	05	09	DEC 29,1974	
7.533	619.273	05	10	DEC 29,1974	END DECLINE
7.550	619.215	05	11	DEC 29,1974	
7.567	619.215	05	12	DEC 29,1974	
7.583	619.157	05	13	DEC 29,1974	
7.600	619.215	05	14	DEC 29,1974	
7.617	619.040	05	15	DEC 29.1974	
7.633	618.982	05	16	DEC 29,1974	
7.650	618.982	05	17	DEC 29,1974	
7.667	618.982	05	18	DEC 29,1974	
7.683	618.924	05	19	DEC 29,1974	
7.700	618.866	05	20	DEC 29,1974	
7.717	618.866	05	21	DEC 29,1974	
7.733	618.866	05	22	DEC 29,1974	END OF TEST

465 POINTS REPORTED THIS RUN

→ JRM

JOHNSTON
Schlumberger

technical report

II B-1364

F.R. #09083 C

COMPANY ATLANTIC-RICHFIELD COMPANY
WELL FEDERAL S. G. #17
TEST NO. 31
COUNTY RIO BLANCO
STATE COLORADO

JOHNSTON
...found a better way

SURFACE INFORMATION

iption (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool (12-30-74)	1441	-	-
CLOSED FOR INITIAL SHUT-IN	1442	-	-
FINISHED SHUT-IN	1511	-	-
RE-OPENED TOOL	1514	-	-
STARTED INJECTING WATER	2210	-	-
2 GAL/MIN. FROM	2210	-	-
TO	2230	-	-
5 GAL/MIN. FROM	2230	-	-
TO	2250	-	-
11 GAL/MIN. FROM	2250	-	-
TO	2310	-	-
(12-31-74)			
CLOSED TOOL	0005	-	-
PULLED PACKER LOOSE	0007	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER - FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested GREEN RIVER
Elevation 7036 Ft.
Net Productive Interval 52 Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 1970 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 297' I.D. -
Drill Pipe Length 1587' I.D. -
Packer Depth(s) 1914' & 1918' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure ______ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas ______
cc. Oil ______
cc. Water ______
cc. Mud ______
Tot. Liquid cc. ______
Gravity ______ °API @ ______ °F.
Gas/Oil Ratio ______ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: ______

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202
any ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH
Well FEDERAL S. G. #17 Location 436' FWL & 181 FSL SEC. 16-3S-97W
Test Interval 1913' TO 1970' Test # 31 Date 12-30-74
County RIO BLANCO State COLORADO II B-1365
Technician BURNS (VERNAL) Test Approved By MR. ALLEN D. WALLER
Field Report No. 09083 C
No. Reports Requested 14 (13x)

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT 4097 N PRESSURE (P.S.I.G.)	INSTRUMENT PRESSURE (P.S.I.G.)
INITIAL HYDROSTATIC	1	-		614.5	
PACKER SEAT	2	-		624.4	
TOOL OPENED (12-30-74)	3	1441	0	150.0	
CLOSED FOR INITIAL SHUT-IN	4	1443	2	171.1	
			4	606.0	
			6	606.0	
			8	606.0	
			10	606.0	
			12	606.0	
			14	606.0	
			16	606.0	
			18	606.0	
			20	606.0	
			22	606.0	
			24	606.0	
			26	606.0	
			28	606.0	
			30	606.0	
INITIAL SHUT-IN	5	1515	32	606.0	
			34	607.5	
CYCLING TOOL	6	1518	35	607.5	
TOOL RE-OPENED - INITIAL FLOW	7	1518	35	78.3	
			36	114.9	
			38	145.8	
			40	169.8	
			42	188.1	
			44	207.8	
			46	224.6	
			48	242.9	
			50	259.8	
			52	276.7	
			54	293.6	
			56	307.7	
			58	324.6	
			60	337.2	
			62	354.1	
			64	366.8	
			66	378.1	
			68	392.1	
			70	403.4	
			72	416.1	
			74	425.9	
			76	437.2	
			78	448.4	
			80	458.3	
			82	468.1	
			84	476.6	
			86	486.4	
			88	493.5	
			90	501.9	
			92	510.4	
			94	516.0	
			96	523.0	
			98	530.1	

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT PRESSURE(P.S.I.G.)	INSTRUMENT PRESSURE(P.S.I.G.)
			100	535.7	
			102	539.9	
			104	545.6	
			106	551.2	
			108	555.4	
			110	559.6	
			112	562.4	
			114	565.3	
			116	569.5	
			118	572.3	
			120	575.1	
			122	577.9	
			124	579.3	
			126	582.2	
			128	583.6	
			130	585.0	
			132	586.4	
			134	587.8	
			136	589.2	
			138	589.2	
			140	590.6	
			142	592.0	
			144	593.4	
			146	593.4	
			148	593.4	
			150	594.8	
			152	596.2	
			154	596.2	
			156	596.2	
			158	597.6	
			160	597.6	
			162	597.6	
			164	597.6	
			166	599.0	
			168	599.0	
			170	599.0	
			172	599.0	
			174	599.0	
			176	600.4	
			178	600.4	
			180	600.4	
			182	600.4	
			184	600.4	
			186	600.4	
			188	601.9	
			190	601.9	
			192	601.9	
			194	601.9	
			196	601.9	
			198	601.9	
			200	601.9	
			202	601.9	
			204	601.9	
			206	601.9	
			208	601.9	
			210	601.9	

II B-1367

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT PRESSURE (P.S.I.G.)	INSTRUMENT PRESSURE (P.S.I.G.)
			212	601.9	
			214	603.3	
			216	603.3	
			218	603.3	
			220	604.7	
			222	604.7	
			224	604.7	
			226	604.7	
			228	604.7	
			230	604.7	
			232	604.7	
			234	604.7	
			236	604.7	
STARTED JETTING WATER	8	1838	237	604.7	
			238	635.6	
JETTING	9	1840	239	646.9	
			240	545.6	
JETTING	10	1842	241	542.7	
			242	562.4	
JETTING	11	1844	243	582.2	
			244	577.9	
			246	572.3	
			248	569.5	
			250	569.5	
			252	569.5	
			254	569.5	
			256	569.5	
			258	569.5	
			260	569.5	
			262	569.5	
			264	569.5	
			266	569.5	
			268	569.5	
			270	569.5	
			272	569.5	
			274	569.5	
			276	569.5	
			278	569.5	
			280	569.5	
			282	569.5	
			284	569.5	
			286	568.1	
			288	568.1	
			290	568.1	
			292	568.1	
			294	568.1	
			296	568.1	
			298	568.1	
			300	568.1	
JETTING	12	1943	302	568.1	
FINISHED JETTING	13	1945	304	535.7	
			306	548.4	
			308	554.0	
			310	559.6	
			312	563.9	
			314	568.1	

II B-1368

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT PRESSURE (P.S.I.G.)	INSTRUMENT PRESSURE (P.S.I.G.)
			316	570.9	
			318	575.1	
			320	579.3	
			322	580.7	
			324	583.6	
			326	585.0	
			328	586.4	
			330	589.2	
			332	589.2	
			334	590.6	
			336	592.0	
			338	593.4	
			340	593.4	
			342	594.8	
			344	596.2	
			346	596.2	
			348	597.6	
			350	597.6	
			352	599.0	
			354	599.0	
			356	600.4	
			358	600.4	
			360	600.4	
			362	600.4	
			364	600.4	
			366	601.9	
			368	601.9	
			370	603.3	
			372	603.3	
			374	603.3	
			376	603.3	
			378	603.3	
			380	603.3	
			382	603.3	
			384	603.3	
			386	603.3	
			388	603.3	
			390	603.3	
			394	603.3	
			396	603.3	
			398	603.3	
			400	603.3	
			402	603.3	
			404	603.3	
			406	603.3	
			408	603.3	
			410	603.3	
			412	604.7	
			414	604.7	
			416	604.7	
			418	604.7	
			420	604.7	
			422	604.7	
			424	604.7	
			426	604.7	
			428	604.7	

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT PRESSURE (P.S.I.G.)	INSTRUMENT PRESSURE (P.S.I.G.
			430	604.7	
			432	604.7	
			434	604.7	
			436	604.7	
			438	604.7	
			440	604.7	
			442	604.7	
			444	604.7	
			446	604.7	
			448	604.7	
			450	604.7	
	14	2212	451	604.7	
STARTED INJECTION - 2 GAL./MIN.			452	608.9	
			454	614.5	
			456	620.2	
			458	624.4	
			460	628.6	
			462	632.8	
			464	637.0	
			466	639.9	
			468	642.7	
			470	646.9	
STARTED 5 GAL./MIN.			472	653.9	
			474	658.2	
			476	663.8	
			478	669.4	
			480	673.6	
			482	679.3	
			484	682.1	
			486	686.3	
			488	689.1	
STARTED 11 GAL./MIN.	15	2250	489	690.5	
			490	700.4	
			492	715.9	
			494	729.9	
			496	746.8	
			498	758.1	
			500	769.3	
			502	779.2	
			504	790.5	
			506	798.9	
			508	807.4	
			510	822.8	
			512	827.1	
			514	827.1	
			516	828.5	
			518	829.9	
			520	829.9	
			522	829.9	
			524	829.9	
		II B-1370	526	829.9	
FINISHED INJECTION - STARTED PRESSURE FALL OFF	16	2329	528	829.9	
			530	815.8	

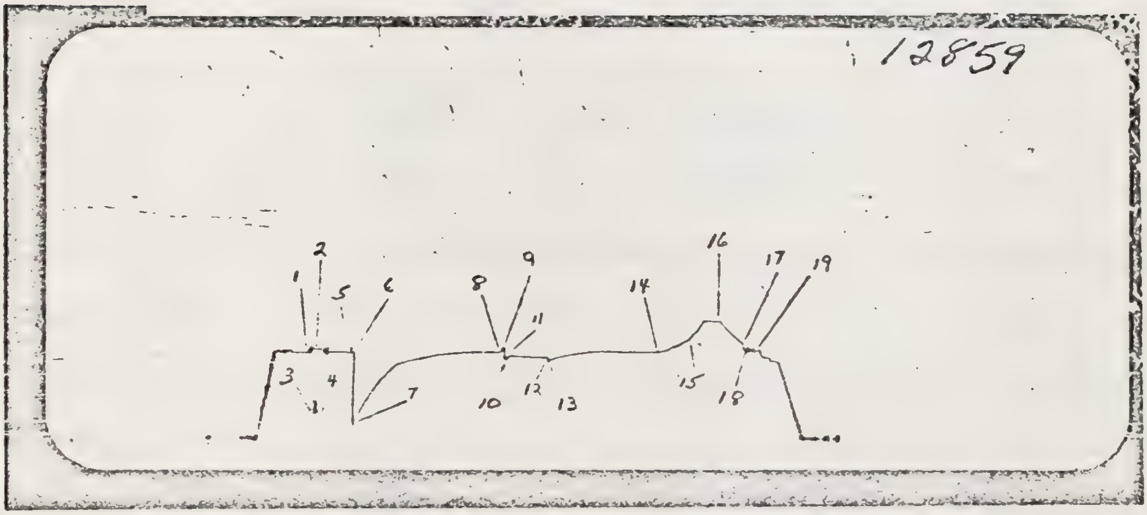
DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT PRESSURE(P.S.I.G.)	INSTRUMENT PRESSURE(P.S.I.G.)
			532	800.3	
			534	784.8	
			536	773.6	
			538	762.3	
			540	751.1	
			542	741.2	
			544	731.3	
			546	724.3	
			548	714.5	
			550	707.4	
			552	701.8	
			554	703.2	
			556	690.5	
			558	684.9	
CLOSED TOOL(12-31-74)	17	0001	560	680.7	
			562	623.0	
			564	621.6	
PULLED PACKER LOOSE	18	0007	566	621.6	
FINAL HYDROSTATIC	19	-	-	617.3	

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.)	2800#
DEPTH:	1920'
INSTRUMENT OPENING:	OUTSIDE

JOHNSTON

FIELD REPORT NO.	**RECORDER NO.**
09083 C	4097 N
CAPACITY	**REPORTS REQUESTED**
2800#	14-



PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. [illegible] Date 12/30/74 Run 1; DST #1 Office Casper

Customer Arco Et Al Location [illegible]

State Colorado County/~~Parish~~ Rio Blanco

Well 56 No. 17 Field Test Cb

USE MILITARY TIME FOR ALL TIMES

	Time	Date		Time	Date	Time Charged
Arrive: Well/~~Dock~~	1. 0430	12/30	2.			
Depart: Well/~~Dock~~	1. 0330	12/31	2.			Hrs.
Gauge Start in Hole	1. 1154	12/30	2.			
Gauge Out of Hole	1. 0220	12/31	2.			Hrs.

No. Trips 1 Miles 45 Total Mileage 90

Top Gauge # 197 Element # 35991 Range 1400# Time Mode [illegible]

Btm. Gauge # 98 Element # 29001N Range 2500# Time Mode [illegible]

Type Tool Johnston Hyd Test Depth 1918-1970 Zero Point GROUND LEVEL

Packer Depth 1914'-1918' Tail Pipe Depth 1970 Top Gauge Depth 1870'

Bottom Hole Temp. Atmos. Temp. Bottom Gauge Depth 1927'

TIME INFORMATION	Time	Date	PRESSURE INFORMATION	
On Bottom	1330	12/30/74	Initial Hydrostatic Mud	
Packer Set	1439	12/30/74	Initial Draw Down	
Initial Open	1441	12/30/74	Initial Build-Up	
Initial Shut-In	1442	12/30/74	Final Flow	
Start Flow	1514	12/30/74	Final Build-Up	
Final Shut-In	0005	12/31/74	Final Hydrostatic Mud	
Packer Unseated	0007	12/31/74	Mud Weight	

TIME OF SURFACE NULLS

Top Gauge 1220 1221 1222 Bottom Gauge 1128 1129 1130

Remarks Packer was set @ 1421 hr.; tool opened @ 1423 hr.; then tool picked up @ 1425 & reset @ above times.

SP-423

II B-1373

Operator

JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT CB
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO.197 WITH 1400LB ELEMENT

GAUGE DEPTH IS 1870 FT IN THE ANNULUS

PACKER SET AT 1918 FT.

GROUND LEVEL REFERENCE IS 7036 FEET

INITIAL HYDROSTATIC IS 599.17 PSI

FINAL HYDROSTATIC IS 605.83 PSI

TEST INTERVAL IS FROM SURFACE TO

1918 FT (PACKER DEPTH)

SURFACE TIMES RECORDED DURING TEST WERE NOT FROM A COMMON TIME

BASE THEREFORE EVENTS DO NOT CORRESPOND WITH COMMENTS ON DATA SHEETS.

567 POINTS REPORTED THIS JOB

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-CC                                                   DECEMBER 30 1974

GAUGE/RUN NUMBER                                                    DATE OF RUN
197  DST-3  INIT, OPEN

                                SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT

   DELTA   PRESSURE                        TIME     DATE                COMMENTS
   TIME     (PSI)                         HR MIN

   0,000    611,366                       14  41 DEC 30,1974   INITIAL OPEN
    ,017    611,491                       14  42 DEC 30,1974   END OPEN
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                        2 POINTS REPORTED THIS RUN
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JOB NUMBER                                                        DATE OF JOB
SPG-11210-CC                                                 DECEMBER 30 1974

GAUGE/RUN NUMBER                                                  DATE OF RUN
197  DST-31 SHUT IN

                              SPERRY-SUN
                PRECISION SUBSURFACE PRESSURE GAUGE REPORT


DELTA     PRESSURE                      TIME       DATE             COMMENTS
TIME       (PSI)                       HR MIN

0,000     611,491                      14  42 DEC 30,1974   INITIAL SHUTIN
 ,017     611,991                      14  43 DEC 30,1974
 ,033     612,053                      14  44 DEC 30,1974
 ,050     612,272                      14  45 DEC 30,1974
 ,067     612,335                      14  46 DEC 30,1974
 ,083     612,397                      14  47 DEC 30,1974
 ,100     612,429                      14  48 DEC 30,1974
 ,117     612,491                      14  49 DEC 30,1974
 ,133     612,522                      14  50 DEC 30,1974
 ,150     612,585                      14  51 DEC 30,1974
 ,167     612,585                      14  52 DEC 30,1974
 ,183     612,647                      14  53 DEC 30,1974
 ,200     612,647                      14  54 DEC 30,1974
 ,217     612,647                      14  55 DEC 30,1974
 ,233     612,679                      14  56 DEC 30,1974
 ,250     612,741                      14  57 DEC 30,1974
 ,267     612,741                      14  58 DEC 30,1974
 ,283     612,804                      14  59 DEC 30,1974
 ,300     612,741                      15  00 DEC 30,1974
 ,317     612,804                      15  01 DEC 30,1974
 ,333     612,804                      15  02 DEC 30,1974
 ,350     612,898                      15  03 DEC 30,1974
 ,367     612,898                      15  04 DEC 30,1974
 ,383     612,772                      15  05 DEC 30,1974
 ,400     612,804                      15  06 DEC 30,1974
 ,417     612,772                      15  07 DEC 30,1974
 ,433     612,772                      15  08 DEC 30,1974
 ,450     612,835                      15  09 DEC 30,1974
 ,467     612,866                      15  10 DEC 30,1974
 ,483     613,054                      15  11 DEC 30,1974
 ,500     613,023                      15  12 DEC 30,1974
 ,517     613,085                      15  13 DEC 30,1974
 ,533     613,148                      15  14 DEC 30,1974   END SHUT-IN
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                       33 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	613,148	15 14	DEC 30,1974	START FINAL FLOW
,017	612,804	15 15	DEC 30,1974	
,033	612,898	15 16	DEC 30,1974	
,050	612,991	15 17	DEC 30,1974	
,067	613,179	15 18	DEC 30,1974	
,083	613,210	15 19	DEC 30,1974	
,100	613,210	15 20	DEC 30,1974	
,117	613,241	15 21	DEC 30,1974	
,133	613,210	15 22	DEC 30,1974	
,150	613,273	15 23	DEC 30,1974	
,167	613,335	15 24	DEC 30,1974	
,183	613,398	15 25	DEC 30,1974	
,200	613,398	15 26	DEC 30,1974	
,217	613,398	15 27	DEC 30,1974	
,233	613,429	15 28	DEC 30,1974	
,250	613,460	15 29	DEC 30,1974	
,267	613,460	15 30	DEC 30,1974	
,283	613,492	15 31	DEC 30,1974	
,300	613,492	15 32	DEC 30,1974	
,317	613,492	15 33	DEC 30,1974	
,333	613,492	15 34	DEC 30,1974	
,350	613,554	15 35	DEC 30,1974	
,367	613,554	15 36	DEC 30,1974	
,383	613,585	15 37	DEC 30,1974	
,400	613,585	15 38	DEC 30,1974	
,417	613,617	15 39	DEC 30,1974	
,433	613,648	15 40	DEC 30,1974	
,450	613,648	15 41	DEC 30,1974	
,467	613,648	15 42	DEC 30,1974	
,483	613,742	15 43	DEC 30,1974	
,500	613,710	15 44	DEC 30,1974	
,517	613,742	15 45	DEC 30,1974	
,533	613,742	15 46	DEC 30,1974	
,550	613,773	15 47	DEC 30,1974	
,567	613,804	15 48	DEC 30,1974	
,583	613,804	15 49	DEC 30,1974	
,600	613,804	15 50	DEC 30,1974	
,617	613,836	15 51	DEC 30,1974	
,633	613,836	15 52	DEC 30,1974	
,650	613,836	15 53	DEC 30,1974	

JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
,667	613,867	15 54	DEC 30,1974	
,683	613,898	15 55	DEC 30,1974	
,700	613,898	15 56	DEC 30,1974	
,717	613,929	15 57	DEC 30,1974	
,733	613,929	15 58	DEC 30,1974	
,750	613,992	15 59	DEC 30,1974	
,767	613,961	16 00	DEC 30,1974	
,783	613,992	16 01	DEC 30,1974	
,800	614,023	16 02	DEC 30,1974	
,817	614,023	16 03	DEC 30,1974	
,833	614,023	16 04	DEC 30,1974	
,850	614,023	16 05	DEC 30,1974	
,867	614,023	16 06	DEC 30,1974	
,883	614,023	16 07	DEC 30,1974	
,900	614,054	16 08	DEC 30,1974	
,917	614,086	16 09	DEC 30,1974	
,933	614,086	16 10	DEC 30,1974	
,950	614,117	16 11	DEC 30,1974	
,967	614,117	16 12	DEC 30,1974	
,983	614,148	16 13	DEC 30,1974	
1,000	614,117	16 14	DEC 30,1974	
1,017	614,179	16 15	DEC 30,1974	
1,033	614,211	16 16	DEC 30,1974	
1,050	614,211	16 17	DEC 30,1974	
1,067	614,211	16 18	DEC 30,1974	
1,083	614,211	16 19	DEC 30,1974	
1,100	614,242	16 20	DEC 30,1974	
1,117	614,242	16 21	DEC 30,1974	
1,133	614,242	16 22	DEC 30,1974	
1,150	614,273	16 23	DEC 30,1974	
1,167	614,273	16 24	DEC 30,1974	
1,183	614,304	16 25	DEC 30,1974	
1,200	614,304	16 26	DEC 30,1974	
1,217	614,336	16 27	DEC 30,1974	
1,233	614,336	16 28	DEC 30,1974	
1,250	614,367	16 29	DEC 30,1974	
1,267	614,336	16 30	DEC 30,1974	
1,283	614,367	16 31	DEC 30,1974	
1,300	614,367	16 32	DEC 30,1974	
1,317	614,430	16 33	DEC 30,1974	

JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,333	614,430	16	34	DEC 30,1974	
1,350	614,430	16	35	DEC 30,1974	
1,367	614,430	16	36	DEC 30,1974	
1,363	614,492	16	37	DEC 30,1974	
1,400	614,430	16	38	DEC 30,1974	
1,417	614,492	16	39	DEC 30,1974	
1,433	614,555	16	40	DEC 30,1974	
1,450	614,492	16	41	DEC 30,1974	
1,467	614,523	16	42	DEC 30,1974	
1,483	614,523	16	43	DEC 30,1974	
1,500	614,555	16	44	DEC 30,1974	
1,517	614,586	16	45	DEC 30,1974	
1,533	614,586	16	46	DEC 30,1974	
1,550	614,586	16	47	DEC 30,1974	
1,567	614,617	16	48	DEC 30,1974	
1,583	614,586	16	49	DEC 30,1974	
1,600	614,648	16	50	DEC 30,1974	
1,617	614,648	16	51	DEC 30,1974	
1,633	614,617	16	52	DEC 30,1974	
1,650	614,648	16	53	DEC 30,1974	
1,667	614,680	16	54	DEC 30,1974	
1,683	614,711	16	55	DEC 30,1974	
1,700	614,711	16	56	DEC 30,1974	
1,717	614,711	16	57	DEC 30,1974	
1,733	614,711	16	58	DEC 30,1974	
1,750	614,711	16	59	DEC 30,1974	
1,767	614,742	17	00	DEC 30,1974	
1,783	614,742	17	01	DEC 30,1974	
1,800	614,742	17	02	DEC 30,1974	
1,817	614,742	17	03	DEC 30,1974	
1,833	614,805	17	04	DEC 30,1974	
1,850	614,742	17	05	DEC 30,1974	
1,867	614,805	17	06	DEC 30,1974	
1,883	614,773	17	07	DEC 30,1974	
1,900	614,836	17	08	DEC 30,1974	
1,917	614,805	17	09	DEC 30,1974	
1,933	614,836	17	10	DEC 30,1974	
1,950	614,836	17	11	DEC 30,1974	
1,967	614,867	17	12	DEC 30,1974	
1,983	614,899	17	13	DEC 30,1974	

JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,000	614,899	17	14	DEC 30,1974	
2,017	614,867	17	15	DEC 30,1974	
2,033	614,930	17	16	DEC 30,1974	
2,050	614,930	17	17	DEC 30,1974	
2,067	614,930	17	18	DEC 30,1974	
2,083	614,930	17	19	DEC 30,1974	
2,100	614,930	17	20	DEC 30,1974	
2,117	614,930	17	21	DEC 30,1974	
2,133	614,930	17	22	DEC 30,1974	
2,150	614,961	17	23	DEC 30,1974	
2,167	614,961	17	24	DEC 30,1974	
2,183	614,961	17	25	DEC 30,1974	
2,200	614,992	17	26	DEC 30,1974	
2,217	615,024	17	27	DEC 30,1974	
2,233	615,024	17	28	DEC 30,1974	
2,250	615,024	17	29	DEC 30,1974	
2,267	615,024	17	30	DEC 30,1974	
2,283	615,055	17	31	DEC 30,1974	
2,300	615,055	17	32	DEC 30,1974	
2,317	615,055	17	33	DEC 30,1974	
2,333	615,055	17	34	DEC 30,1974	
2,350	615,055	17	35	DEC 30,1974	
2,367	615,055	17	36	DEC 30,1974	
2,383	615,117	17	37	DEC 30,1974	
2,400	615,117	17	38	DEC 30,1974	
2,417	615,149	17	39	DEC 30,1974	
2,433	615,149	17	40	DEC 30,1974	
2,450	615,117	17	41	DEC 30,1974	
2,467	615,117	17	42	DEC 30,1974	
2,483	615,117	17	43	DEC 30,1974	
2,500	615,180	17	44	DEC 30,1974	
2,517	615,211	17	45	DEC 30,1974	
2,533	615,211	17	46	DEC 30,1974	
2,550	615,211	17	47	DEC 30,1974	
2,567	615,211	17	48	DEC 30,1974	
2,583	615,211	17	49	DEC 30,1974	
2,600	615,211	17	50	DEC 30,1974	
2,617	615,211	17	51	DEC 30,1974	
2,633	615,242	17	52	DEC 30,1974	
2,650	615,242	17	53	DEC 30,1974	

JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2,667	615,274	17	54	DEC 30,1974	
2,683	615,274	17	55	DEC 30,1974	
2,700	615,274	17	56	DEC 30,1974	
2,717	615,274	17	57	DEC 30,1974	
2,733	615,336	17	58	DEC 30,1974	
2,750	615,305	17	59	DEC 30,1974	
2,767	615,305	18	00	DEC 30,1974	
2,783	615,305	18	01	DEC 30,1974	
2,800	615,336	18	02	DEC 30,1974	
2,817	615,336	18	03	DEC 30,1974	
2,833	615,336	18	04	DEC 30,1974	
2,850	615,368	18	05	DEC 30,1974	
2,867	615,368	18	06	DEC 30,1974	
2,883	615,368	18	07	DEC 30,1974	
2,900	615,368	18	08	DEC 30,1974	
2,917	615,399	18	09	DEC 30,1974	
2,933	615,399	18	10	DEC 30,1974	
2,950	615,399	18	11	DEC 30,1974	
2,967	615,430	18	12	DEC 30,1974	
2,983	615,430	18	13	DEC 30,1974	
3,000	615,461	18	14	DEC 30,1974	
3,017	615,493	18	15	DEC 30,1974	
3,033	615,493	18	16	DEC 30,1974	
3,050	615,493	18	17	DEC 30,1974	
3,067	615,493	18	18	DEC 30,1974	
3,083	615,493	18	19	DEC 30,1974	
3,100	615,493	18	20	DEC 30,1974	
3,117	615,493	18	21	DEC 30,1974	
3,133	615,524	18	22	DEC 30,1974	
3,150	615,493	18	23	DEC 30,1974	
3,167	615,493	18	24	DEC 30,1974	
3,183	615,555	18	25	DEC 30,1974	
3,200	615,555	18	26	DEC 30,1974	
3,217	615,555	18	27	DEC 30,1974	
3,233	615,555	18	28	DEC 30,1974	
3,250	615,555	18	29	DEC 30,1974	
3,267	615,555	18	30	DEC 30,1974	
3,283	615,586	18	31	DEC 30,1974	
3,300	615,618	18	32	DEC 30,1974	
3,317	615,618	18	33	DEC 30,1974	

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DATE OF JOB
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SPERRY-SUN
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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
3,333	615,618	18	34	DEC 30,1974	
3,350	615,618	18	35	DEC 30,1974	
3,367	615,618	18	36	DEC 30,1974	
3,383	615,618	18	37	DEC 30,1974	
3,400	615,680	18	38	DEC 30,1974	
3,417	615,680	18	39	DEC 30,1974	
3,433	615,680	18	40	DEC 30,1974	START JETTING
3,450	615,649	18	41	DEC 30,1974	DRILL PIPE
3,467	615,680	18	42	DEC 30,1974	
3,483	615,649	18	43	DEC 30,1974	
3,500	615,649	18	44	DEC 30,1974	
3,517	615,743	18	45	DEC 30,1974	
3,533	615,680	18	46	DEC 30,1974	
3,550	615,711	18	47	DEC 30,1974	
3,567	615,711	18	48	DEC 30,1974	
3,583	615,774	18	49	DEC 30,1974	
3,600	615,774	18	50	DEC 30,1974	
3,617	615,774	18	51	DEC 30,1974	
3,633	615,774	18	52	DEC 30,1974	
3,650	615,837	18	53	DEC 30,1974	
3,667	615,837	18	54	DEC 30,1974	
3,683	615,837	18	55	DEC 30,1974	
3,700	615,837	18	56	DEC 30,1974	
3,717	615,837	18	57	DEC 30,1974	
3,733	615,868	18	58	DEC 30,1974	
3,750	615,868	18	59	DEC 30,1974	
3,767	615,899	19	00	DEC 30,1974	
3,783	615,899	19	01	DEC 30,1974	
3,800	615,899	19	02	DEC 30,1974	
3,817	615,899	19	03	DEC 30,1974	
3,833	615,899	19	04	DEC 30,1974	
3,850	615,899	19	05	DEC 30,1974	
3,867	615,899	19	06	DEC 30,1974	
3,883	615,930	19	07	DEC 30,1974	
3,900	615,930	19	08	DEC 30,1974	
3,917	615,962	19	09	DEC 30,1974	
3,933	615,962	19	10	DEC 30,1974	
3,950	615,962	19	11	DEC 30,1974	
3,967	615,962	19	12	DEC 30,1974	
3,983	615,993	19	13	DEC 30,1974	

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-CC                                                    DECEMBER 30 1974

GAUGE/RUN NUMBER                                                    DATE OF RUN
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                                  SPERRY-SUN
                   PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA    PRESSURE                   TIME     DATE                COMMENTS
   TIME      (PSI)                    HR MIN

   4,000    615,993                   19   14 DEC 30,1974
   4,017    615,993                   19   15 DEC 30,1974
   4,033    615,993                   19   16 DEC 30,1974
   4,050    616,024                   19   17 DEC 30,1974
   4,067    616,024                   19   18 DEC 30,1974
   4,083    616,024                   19   19 DEC 30,1974
   4,100    616,024                   19   20 DEC 30,1974
   4,117    616,055                   19   21 DEC 30,1974
   4,133    616,055                   19   22 DEC 30,1974
   4,150    616,055                   19   23 DEC 30,1974
   4,167    616,055                   19   24 DEC 30,1974
   4,183    616,055                   19   25 DEC 30,1974
   4,200    616,055                   19   26 DEC 30,1974
   4,217    616,055                   19   27 DEC 30,1974
   4,233    616,087                   19   28 DEC 30,1974
   4,250    616,087                   19   29 DEC 30,1974
   4,267    616,118                   19   30 DEC 30,1974
   4,283    616,118                   19   31 DEC 30,1974
   4,300    616,118                   19   32 DEC 30,1974
   4,317    616,118                   19   33 DEC 30,1974
   4,333    616,149                   19   34 DEC 30,1974
   4,350    616,118                   19   35 DEC 30,1974
   4,367    616,149                   19   36 DEC 30,1974
   4,383    616,149                   19   37 DEC 30,1974
   4,400    616,149                   19   38 DEC 30,1974
   4,417    616,149                   19   39 DEC 30,1974
   4,433    616,180                   19   40 DEC 30,1974    END JETTING
   4,450    616,180                   19   41 DEC 30,1974
   4,467    616,212                   19   42 DEC 30,1974
   4,483    616,212                   19   43 DEC 30,1974
   4,500    616,212                   19   44 DEC 30,1974
   4,517    616,212                   19   45 DEC 30,1974
   4,533    616,243                   19   46 DEC 30,1974
   4,550    616,243                   19   47 DEC 30,1974
   4,567    616,243                   19   48 DEC 30,1974
   4,583    616,274                   19   49 DEC 30,1974
   4,600    616,274                   19   50 DEC 30,1974
   4,617    616,274                   19   51 DEC 30,1974
   4,633    616,274                   19   52 DEC 30,1974
   4,650    616,274                   19   53 DEC 30,1974
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DATE OF JOB
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GAUGE/RUN NUMBER
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME		DATE	COMMENTS
		HR	MIN		
4,667	616,274	19	54	DEC 30,1974	
4,683	616,306	19	55	DEC 30,1974	
4,700	616,306	19	56	DEC 30,1974	
4,717	616,306	19	57	DEC 30,1974	
4,733	616,337	19	58	DEC 30,1974	
4,750	616,337	19	59	DEC 30,1974	
4,767	616,337	20	00	DEC 30,1974	
4,783	616,337	20	01	DEC 30,1974	
4,800	616,368	20	02	DEC 30,1974	
4,817	616,368	20	03	DEC 30,1974	
4,833	616,368	20	04	DEC 30,1974	
4,850	616,368	20	05	DEC 30,1974	
4,867	616,368	20	06	DEC 30,1974	
4,883	616,399	20	07	DEC 30,1974	
4,900	616,399	20	08	DEC 30,1974	
4,917	616,399	20	09	DEC 30,1974	
4,933	616,399	20	10	DEC 30,1974	
4,950	616,431	20	11	DEC 30,1974	
4,967	616,368	20	12	DEC 30,1974	
4,983	616,431	20	13	DEC 30,1974	
5,000	616,462	20	14	DEC 30,1974	
5,017	616,431	20	15	DEC 30,1974	
5,033	616,431	20	16	DEC 30,1974	
5,050	616,431	20	17	DEC 30,1974	
5,067	616,493	20	18	DEC 30,1974	
5,083	616,493	20	19	DEC 30,1974	
5,100	616,524	20	20	DEC 30,1974	
5,117	616,493	20	21	DEC 30,1974	
5,133	616,556	20	22	DEC 30,1974	
5,150	616,493	20	23	DEC 30,1974	
5,167	616,524	20	24	DEC 30,1974	
5,183	616,524	20	25	DEC 30,1974	
5,200	616,556	20	26	DEC 30,1974	
5,217	616,524	20	27	DEC 30,1974	
5,233	616,524	20	28	DEC 30,1974	
5,250	616,524	20	29	DEC 30,1974	
5,267	616,556	20	30	DEC 30,1974	
5,283	616,587	20	31	DEC 30,1974	
5,300	616,556	20	32	DEC 30,1974	
5,317	616,556	20	33	DEC 30,1974	

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DATE OF JOB
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DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
5,333	616,556	20	34	DEC 30,1974	
5,350	616,556	20	35	DEC 30,1974	
5,367	616,556	20	36	DEC 30,1974	
5,383	616,618	20	37	DEC 30,1974	
5,400	616,618	20	38	DEC 30,1974	
5,417	616,587	20	39	DEC 30,1974	
5,433	616,618	20	40	DEC 30,1974	
5,450	616,649	20	41	DEC 30,1974	
5,467	616,649	20	42	DEC 30,1974	
5,483	616,618	20	43	DEC 30,1974	
5,500	616,618	20	44	DEC 30,1974	
5,517	616,649	20	45	DEC 30,1974	
5,533	616,649	20	46	DEC 30,1974	
5,550	616,618	20	47	DEC 30,1974	
5,567	616,618	20	48	DEC 30,1974	
5,583	616,618	20	49	DEC 30,1974	
5,600	616,712	20	50	DEC 30,1974	
5,617	616,681	20	51	DEC 30,1974	
5,633	616,649	20	52	DEC 30,1974	
5,650	616,681	20	53	DEC 30,1974	
5,667	616,743	20	54	DEC 30,1974	
5,683	616,681	20	55	DEC 30,1974	
5,700	616,681	20	56	DEC 30,1974	
5,717	616,712	20	57	DEC 30,1974	
5,733	616,743	20	58	DEC 30,1974	
5,750	616,743	20	59	DEC 30,1974	
5,767	616,743	21	00	DEC 30,1974	
5,783	616,743	21	01	DEC 30,1974	
5,800	616,774	21	02	DEC 30,1974	
5,817	616,712	21	03	DEC 30,1974	
5,833	616,743	21	04	DEC 30,1974	
5,850	616,806	21	05	DEC 30,1974	
5,867	616,774	21	06	DEC 30,1974	
5,883	616,743	21	07	DEC 30,1974	
5,900	616,806	21	08	DEC 30,1974	
5,917	616,806	21	09	DEC 30,1974	
5,933	616,806	21	10	DEC 30,1974	
5,950	616,806	21	11	DEC 30,1974	
5,967	616,806	21	12	DEC 30,1974	
5,983	616,806	21	13	DEC 30,1974	

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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6,000	616,837	21	14	DEC 30,1974	
6,017	616,837	21	15	DEC 30,1974	60 GPM DOWN
6,033	616,837	21	16	DEC 30,1974	ANNULUS
6,050	616,868	21	17	DEC 30,1974	
6,067	616,868	21	18	DEC 30,1974	
6,083	617,056	21	19	DEC 30,1974	
6,100	617,181	21	20	DEC 30,1974	
6,117	622,809	21	21	DEC 30,1974	
6,133	624,716	21	22	DEC 30,1974	
6,150	626,248	21	23	DEC 30,1974	
6,167	627,655	21	24	DEC 30,1974	
6,183	628,906	21	25	DEC 30,1974	
6,200	629,625	21	26	DEC 30,1974	
6,217	630,344	21	27	DEC 30,1974	
6,233	630,938	21	28	DEC 30,1974	
6,250	631,376	21	29	DEC 30,1974	
6,267	630,813	21	30	DEC 30,1974	
6,283	630,438	21	31	DEC 30,1974	
6,300	630,188	21	32	DEC 30,1974	
6,317	630,844	21	33	DEC 30,1974	
6,333	631,688	21	34	DEC 30,1974	
6,350	632,439	21	35	DEC 30,1974	
6,367	633,314	21	36	DEC 30,1974	
6,383	634,033	21	37	DEC 30,1974	
6,400	634,659	21	38	DEC 30,1974	
6,417	635,284	21	39	DEC 30,1974	
6,433	635,784	21	40	DEC 30,1974	
6,450	636,222	21	41	DEC 30,1974	
6,467	636,660	21	42	DEC 30,1974	
6,463	637,097	21	43	DEC 30,1974	
6,500	637,379	21	44	DEC 30,1974	
6,517	637,691	21	45	DEC 30,1974	DECLINE
6,533	637,879	21	46	DEC 30,1974	
6,550	638,129	21	47	DEC 30,1974	
6,567	638,317	21	48	DEC 30,1974	
6,583	637,066	21	49	DEC 30,1974	
6,600	634,190	21	50	DEC 30,1974	
6,617	631,751	21	51	DEC 30,1974	
6,633	629,781	21	52	DEC 30,1974	
6,650	627,968	21	53	DEC 30,1974	

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DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6,667	626,529	21	54	DEC 30,1974	
6,683	625,216	21	55	DEC 30,1974	
6,700	624,091	21	56	DEC 30,1974	
6,717	623,215	21	57	DEC 30,1974	
6,733	622,402	21	58	DEC 30,1974	
6,750	621,746	21	59	DEC 30,1974	
6,767	621,183	22	00	DEC 30,1974	
6,783	620,714	22	01	DEC 30,1974	
6,800	620,276	22	02	DEC 30,1974	
6,817	619,870	22	03	DEC 30,1974	
6,833	619,557	22	04	DEC 30,1974	
6,850	619,338	22	05	DEC 30,1974	
6,867	619,026	22	06	DEC 30,1974	
6,883	618,838	22	07	DEC 30,1974	
6,900	618,619	22	08	DEC 30,1974	
6,917	618,525	22	09	DEC 30,1974	
6,933	618,369	22	10	DEC 30,1974	2 GPM INSIDE
6,950	618,244	22	11	DEC 30,1974	DRILL PIPE
6,967	618,088	22	12	DEC 30,1974	
6,983	618,025	22	13	DEC 30,1974	
7,000	617,931	22	14	DEC 30,1974	
7,017	617,838	22	15	DEC 30,1974	
7,033	617,806	22	16	DEC 30,1974	
7,050	617,712	22	17	DEC 30,1974	
7,067	617,681	22	18	DEC 30,1974	
7,083	617,587	22	19	DEC 30,1974	
7,100	617,587	22	20	DEC 30,1974	
7,117	617,525	22	21	DEC 30,1974	
7,133	617,462	22	22	DEC 30,1974	
7,150	617,400	22	23	DEC 30,1974	
7,167	617,462	22	24	DEC 30,1974	
7,183	617,462	22	25	DEC 30,1974	
7,200	617,400	22	26	DEC 30,1974	
7,217	617,400	22	27	DEC 30,1974	
7,233	617,337	22	28	DEC 30,1974	
7,250	617,337	22	29	DEC 30,1974	
7,267	617,337	22	30	DEC 30,1974	5 GPM INSIDE
7,283	617,275	22	31	DEC 30,1974	DRILL PIPE
7,300	617,306	22	32	DEC 30,1974	
7,317	617,337	22	33	DEC 30,1974	

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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
7,333	617,275	22	34	DEC 30,1974	
7,350	617,275	22	35	DEC 30,1974	
7,367	617,306	22	36	DEC 30,1974	
7,383	617,243	22	37	DEC 30,1974	
7,400	617,243	22	38	DEC 30,1974	
7,417	617,243	22	39	DEC 30,1974	
7,433	617,243	22	40	DEC 30,1974	
7,450	617,243	22	41	DEC 30,1974	
7,467	617,181	22	42	DEC 30,1974	
7,483	617,181	22	43	DEC 30,1974	
7,500	617,212	22	44	DEC 30,1974	
7,517	617,212	22	45	DEC 30,1974	
7,533	617,212	22	46	DEC 30,1974	
7,550	617,181	22	47	DEC 30,1974	
7,567	617,181	22	48	DEC 30,1974	
7,583	617,181	22	49	DEC 30,1974	
7,600	617,212	22	50	DEC 30,1974	10 GPM INSIDE
7,617	617,212	22	51	DEC 30,1974	DRILL PIPE
7,633	617,212	22	52	DEC 30,1974	
7,650	617,212	22	53	DEC 30,1974	
7,667	617,212	22	54	DEC 30,1974	
7,683	617,212	22	55	DEC 30,1974	
7,700	617,181	22	56	DEC 30,1974	
7,717	617,243	22	57	DEC 30,1974	
7,733	617,181	22	58	DEC 30,1974	
7,750	617,212	22	59	DEC 30,1974	
7,767	617,212	23	00	DEC 30,1974	
7,783	617,212	23	01	DEC 30,1974	
7,800	617,212	23	02	DEC 30,1974	
7,817	617,212	23	03	DEC 30,1974	
7,833	617,243	23	04	DEC 30,1974	
7,850	617,243	23	05	DEC 30,1974	
7,867	617,243	23	06	DEC 30,1974	
7,883	617,243	23	07	DEC 30,1974	
7,900	617,275	23	08	DEC 30,1974	
7,917	617,243	23	09	DEC 30,1974	
7,933	617,243	23	10	DEC 30,1974	OVERFLOW 12
7,950	617,243	23	11	DEC 30,1974	GPM INSIDE
7,967	617,243	23	12	DEC 30,1974	DRILL PIPE
7,983	617,243	23	13	DEC 30,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
8,000	617,275	23	14	DEC 30,1974	
8,017	617,275	23	15	DEC 30,1974	
8,033	617,275	23	16	DEC 30,1974	
8,050	617,306	23	17	DEC 30,1974	
8,067	617,306	23	18	DEC 30,1974	
8,083	617,306	23	19	DEC 30,1974	
8,100	617,306	23	20	DEC 30,1974	
8,117	617,337	23	21	DEC 30,1974	
8,133	617,337	23	22	DEC 30,1974	
8,150	617,337	23	23	DEC 30,1974	
8,167	617,337	23	24	DEC 30,1974	
8,183	617,400	23	25	DEC 30,1974	
8,200	617,369	23	26	DEC 30,1974	
8,217	617,369	23	27	DEC 30,1974	
8,233	617,369	23	28	DEC 30,1974	
8,250	617,369	23	29	DEC 30,1974	
8,267	617,400	23	30	DEC 30,1974	END OVERFLOW
8,283	617,431	23	31	DEC 30,1974	START DECLINE
8,300	617,431	23	32	DEC 30,1974	
8,317	617,431	23	33	DEC 30,1974	
8,333	617,431	23	34	DEC 30,1974	
8,350	617,431	23	35	DEC 30,1974	
8,367	617,431	23	36	DEC 30,1974	
8,384	617,431	23	37	DEC 30,1974	
8,400	617,462	23	38	DEC 30,1974	
8,417	617,462	23	39	DEC 30,1974	
8,434	617,462	23	40	DEC 30,1974	
8,450	617,494	23	41	DEC 30,1974	
8,467	617,462	23	42	DEC 30,1974	
8,484	617,494	23	43	DEC 30,1974	
8,500	617,494	23	44	DEC 30,1974	
8,517	617,494	23	45	DEC 30,1974	
8,534	617,494	23	46	DEC 30,1974	
8,550	617,494	23	47	DEC 30,1974	
8,567	617,494	23	48	DEC 30,1974	
8,584	617,494	23	49	DEC 30,1974	
8,600	617,494	23	50	DEC 30,1974	
8,617	617,494	23	51	DEC 30,1974	
8,634	617,494	23	52	DEC 30,1974	
8,650	617,494	23	53	DEC 30,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
8,667	617,525	23	54	DEC 30,1974	
8,684	617,525	23	55	DEC 30,1974	
8,700	617,525	23	56	DEC 30,1974	
8,717	617,494	23	57	DEC 30,1974	
8,734	617,525	23	58	DEC 30,1974	
8,750	617,525	23	59	DEC 30,1974	
8,767	617,525	00	00	DEC 31,1974	
8,784	617,525	00	01	DEC 31,1974	
8,800	617,587	00	02	DEC 31,1974	
8,817	617,587	00	03	DEC 31,1974	
8,834	617,587	00	04	DEC 31,1974	
8,850	617,587	00	05	DEC 31,1974	END TEST

532 POINTS REPORTED THIS RUN

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT C-B
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO, 98 WITH 2500LB, ELEMENT

GAUGE DEPTH IS 1927 FT, INSIDE DRILL PIPE

PACKER SET AT 1918 FT

GROUND LEVEL REFERENCE 7036FEET,

TEST INTERVAL IS 1918 FT PACKER

DEPTH TO 1970 FT

TOOL DID NOT OPEN ON INITIAL OPEN

HYDROSTATIC PRESSURE NOT REPORTED BECAUSE OF DST TOOL PROBLEMS,

SURFACE TIMES RECORDED DURING TEST WERE NOT FROM A COMMON TIME

BASE THEREFORE EVENTS DO NOT CORRESPOND WITH COMMENTS ON DATA SHEETS,

II B-1391

566 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
96 DST 31 INIT, OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	666,810	14 41	DEC 30,1974	INITIAL OPEN

1 POINTS REPORTED THIS RUN

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JOB NUMBER                                                    DATE OF JOB
SPG-11210-CC                                             DECEMBER 30 1974

GAUGE/RUN NUMBER                                              DATE OF RUN
96    DST-31 SHUT IN

                              SPERRY-SUN
               PRECISION SUBSURFACE PRESSURE GAUGE REPORT

   DELTA     PRESSURE                  TIME      DATE             COMMENTS
   TIME       (PSI)                   HR MIN

   0,000     666,810                  14  42 DEC 30,1974   INITIAL SHUTIN
    ,017     666,694                  14  43 DEC 30,1974
    ,033     650,848                  14  44 DEC 30,1974
    ,050     649,217                  14  45 DEC 30,1974
    ,067     647,061                  14  46 DEC 30,1974
    ,083     646,537                  14  47 DEC 30,1974
    ,100     646,246                  14  48 DEC 30,1974
    ,117     646,129                  14  49 DEC 30,1974
    ,133     645,955                  14  50 DEC 30,1974
    ,150     645,838                  14  51 DEC 30,1974
    ,167     645,896                  14  52 DEC 30,1974
    ,183     645,896                  14  53 DEC 30,1974
    ,200     645,896                  14  54 DEC 30,1974
    ,217     645,838                  14  55 DEC 30,1974
    ,233     645,780                  14  56 DEC 30,1974
    ,250     645,780                  14  57 DEC 30,1974
    ,267     645,780                  14  58 DEC 30,1974
    ,283     645,780                  14  59 DEC 30,1974
    ,300     645,780                  15  00 DEC 30,1974
    ,317     645,721                  15  01 DEC 30,1974
    ,333     645,721                  15  02 DEC 30,1974
    ,350     645,663                  15  03 DEC 30,1974
    ,367     645,721                  15  04 DEC 30,1974
    ,383     645,721                  15  05 DEC 30,1974
    ,400     645,721                  15  06 DEC 30,1974
    ,417     645,663                  15  07 DEC 30,1974
    ,433     645,663                  15  08 DEC 30,1974
    ,450     645,605                  15  09 DEC 30,1974
    ,467     645,605                  15  10 DEC 30,1974
    ,483     645,605                  15  11 DEC 30,1974
    ,500     645,663                  15  12 DEC 30,1974
    ,517     645,605                  15  13 DEC 30,1974
    ,533     645,605                  15  14 DEC 30,1974   END SHUTIN
```

33 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0,000	645,605	15	14	DEC 30,1974	START FLOW
,017	698,036	15	15	DEC 30,1974	
,033	648,634	15	16	DEC 30,1974	
,050	646,887	15	17	DEC 30,1974	
,067	647,294	15	18	DEC 30,1974	END TOOL CYCLE
,083	131,932	15	19	DEC 30,1974	
,100	120,271	15	20	DEC 30,1974	
,117	142,780	15	21	DEC 30,1974	
,133	160,299	15	22	DEC 30,1974	
,150	180,951	15	23	DEC 30,1974	
,167	193,597	15	24	DEC 30,1974	
,183	203,865	15	25	DEC 30,1974	
,200	213,984	15	26	DEC 30,1974	
,217	223,813	15	27	DEC 30,1974	
,233	233,642	15	28	DEC 30,1974	
,250	243,354	15	29	DEC 30,1974	
,267	253,007	15	30	DEC 30,1974	
,283	262,251	15	31	DEC 30,1974	
,300	271,671	15	32	DEC 30,1974	
,317	280,914	15	33	DEC 30,1974	
,333	290,041	15	34	DEC 30,1974	
,350	299,051	15	35	DEC 30,1974	
,367	307,768	15	36	DEC 30,1974	
,383	316,193	15	37	DEC 30,1974	
,400	324,676	15	38	DEC 30,1974	
,417	333,160	15	39	DEC 30,1974	
,433	341,233	15	40	DEC 30,1974	
,450	349,307	15	41	DEC 30,1974	
,467	356,971	15	42	DEC 30,1974	
,483	364,928	15	43	DEC 30,1974	
,500	372,826	15	44	DEC 30,1974	
,517	380,432	15	45	DEC 30,1974	
,533	388,096	15	46	DEC 30,1974	
,550	395,175	15	47	DEC 30,1974	
,567	402,488	15	48	DEC 30,1974	
,583	409,509	15	49	DEC 30,1974	
,600	416,529	15	50	DEC 30,1974	
,617	423,082	15	51	DEC 30,1974	
,633	429,869	15	52	DEC 30,1974	
,650	436,480	15	53	DEC 30,1974	

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DATE OF JOB
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GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
,667	442,857	15	54	DEC 30,1974	
,683	449,409	15	55	DEC 30,1974	
,700	455,552	15	56	DEC 30,1974	
,717	461,286	15	57	DEC 30,1974	
,733	467,195	15	58	DEC 30,1974	
,750	472,929	15	59	DEC 30,1974	
,767	478,370	16	00	DEC 30,1974	
,783	484,045	16	01	DEC 30,1974	
,800	489,369	16	02	DEC 30,1974	
,817	-49,121	16	03	DEC 30,1974	
,833	499,490	16	04	DEC 30,1974	
,850	504,463	16	05	DEC 30,1974	
,867	509,085	16	06	DEC 30,1974	
,883	513,707	16	07	DEC 30,1974	
,900	518,270	16	08	DEC 30,1974	
,917	522,775	16	09	DEC 30,1974	
,933	527,104	16	10	DEC 30,1974	
,950	531,492	16	11	DEC 30,1974	
,967	535,646	16	12	DEC 30,1974	
,983	539,742	16	13	DEC 30,1974	
1,000	543,603	16	14	DEC 30,1974	
1,017	547,581	16	15	DEC 30,1974	
1,033	551,267	16	16	DEC 30,1974	
1,050	554,953	16	17	DEC 30,1974	
1,067	558,639	16	18	DEC 30,1974	
1,083	562,032	16	19	DEC 30,1974	
1,100	565.308	16	20	DEC 30,1974	
1,117	568,526	16	21	DEC 30,1974	
1,133	571,861	16	22	DEC 30,1974	
1,150	574,962	16	23	DEC 30,1974	
1,167	577,594	16	24	DEC 30,1974	
1,183	580,403	16	25	DEC 30,1974	
1,200	583,328	16	26	DEC 30,1974	
1,217	586,078	16	27	DEC 30,1974	
1,233	588,593	16	28	DEC 30,1974	
1,250	591,051	16	29	DEC 30,1974	
1,267	593,391	16	30	DEC 30,1974	
1,283	595,673	16	31	DEC 30,1974	
1,300	597,954	16	32	DEC 30,1974	
1,317	549,943	16	33	DEC 30,1974	

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JOB NUMBER                                                                DATE OF JOB
SPG-11210-CC                                                         DECEMBER 30 1974

GAUGE/RUN NUMBER                                                          DATE OF RUN
98   DST-31 FINAL FLOW

                                   SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA     PRESSURE                        TIME       DATE               COMMENTS
   TIME       (PSI)                         HR MIN

   1,333     601,874                        16   34 DEC 30,1974
   1,350     603,629                        16   35 DEC 30,1974
   1,367     605,443                        16   36 DEC 30,1974
   1,383     606,964                        16   37 DEC 30,1974
   1,400     608,778                        16   38 DEC 30,1974
   1,417     610,357                        16   39 DEC 30,1974
   1,433     611,933                        16   40 DEC 30,1974
   1,450     613,389                        16   41 DEC 30,1974
   1,467     614,729                        16   42 DEC 30,1974
   1,483     616,069                        16   43 DEC 30,1974
   1,500     617,409                        16   44 DEC 30,1974
   1,517     618,632                        16   45 DEC 30,1974
   1,533     619,914                        16   46 DEC 30,1974
   1,550     621,254                        16   47 DEC 30,1974
   1,567     622,419                        16   48 DEC 30,1974
   1,583     623,468                        16   49 DEC 30,1974
   1,600     624,341                        16   50 DEC 30,1974
   1,617     625,215                        16   51 DEC 30,1974
   1,633     626,147                        16   52 DEC 30,1974
   1,650     626,963                        16   53 DEC 30,1974
   1,667     627,779                        16   54 DEC 30,1974
   1,683     628,652                        16   55 DEC 30,1974
   1,700     629,410                        16   56 DEC 30,1974
   1,717     630,051                        16   57 DEC 30,1974
   1,733     630,750                        16   58 DEC 30,1974
   1,750     631,332                        16   59 DEC 30,1974
   1,767     631,973                        17   00 DEC 30,1974
   1,783     632,556                        17   01 DEC 30,1974
   1,800     633,138                        17   02 DEC 30,1974
   1,817     633,604                        17   03 DEC 30,1974
   1,833     634,129                        17   04 DEC 30,1974
   1,850     634,653                        17   05 DEC 30,1974
   1,867     635,201                        17   06 DEC 30,1974
   1,883     635,468                        17   07 DEC 30,1974
   1,900     635,934                        17   08 DEC 30,1974
   1,917     636,284                        17   09 DEC 30,1974
   1,933     636,692                        17   10 DEC 30,1974
   1,950     637,100                        17   11 DEC 30,1974
   1,967     637,391                        17   12 DEC 30,1974
   1,983     637,740                        17   13 DEC 30,1974
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DATE OF JOB
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GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,000	638,090	17	14	DEC 30,1974	
2,017	638,381	17	15	DEC 30,1974	
2,033	638,614	17	16	DEC 30,1974	
2,050	638,847	17	17	DEC 30,1974	
2,067	639,139	17	18	DEC 30,1974	
2,083	639,430	17	19	DEC 30,1974	
2,100	639,605	17	20	DEC 30,1974	
2,117	639,896	17	21	DEC 30,1974	
2,133	640,071	17	22	DEC 30,1974	
2,150	640,362	17	23	DEC 30,1974	
2,167	640,653	17	24	DEC 30,1974	
2,183	640,828	17	25	DEC 30,1974	
2,200	641,061	17	26	DEC 30,1974	
2,217	641,236	17	27	DEC 30,1974	
2,233	641,352	17	28	DEC 30,1974	
2,250	641,585	17	29	DEC 30,1974	
2,267	641,760	17	30	DEC 30,1974	
2,283	641,993	17	31	DEC 30,1974	
2,300	642,110	17	32	DEC 30,1974	
2,317	642,226	17	33	DEC 30,1974	
2,333	642,401	17	34	DEC 30,1974	
2,350	642,517	17	35	DEC 30,1974	
2,367	642,692	17	36	DEC 30,1974	
2,383	642,809	17	37	DEC 30,1974	
2,400	642,985	17	38	DEC 30,1974	
2,417	643,100	17	39	DEC 30,1974	
2,433	643,216	17	40	DEC 30,1974	
2,450	643,275	17	41	DEC 30,1974	
2,467	643,391	17	42	DEC 30,1974	
2,483	643,450	17	43	DEC 30,1974	
2,500	643,624	17	44	DEC 30,1974	
2,517	643,683	17	45	DEC 30,1974	
2,533	643,857	17	46	DEC 30,1974	
2,550	643,916	17	47	DEC 30,1974	
2,567	643,974	17	48	DEC 30,1974	
2,583	644,032	17	49	DEC 30,1974	
2,600	644,149	17	50	DEC 30,1974	
2,617	644,265	17	51	DEC 30,1974	
2,633	644,323	17	52	DEC 30,1974	
2,650	644,440	17	53	DEC 30,1974	

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GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,667	644,498	17	54	DEC 30,1974	
2,683	644,498	17	55	DEC 30,1974	
2,700	644,615	17	56	DEC 30,1974	
2,717	644,731	17	57	DEC 30,1974	
2,733	644,789	17	58	DEC 30,1974	
2,750	644,789	17	59	DEC 30,1974	
2,767	644,906	18	00	DEC 30,1974	
2,783	644,964	18	01	DEC 30,1974	
2,800	645,022	18	02	DEC 30,1974	
2,817	645,081	18	03	DEC 30,1974	
2,833	645,081	18	04	DEC 30,1974	
2,850	645,139	18	05	DEC 30,1974	
2.867	645,197	18	06	DEC 30,1974	
2,883	645,255	18	07	DEC 30,1974	
2,900	645,314	18	08	DEC 30,1974	
2,917	645,372	18	09	DEC 30,1974	
2,933	645,430	18	10	DEC 30,1974	
2,950	645,488	18	11	DEC 30,1974	
2.967	645,488	18	12	DEC 30,1974	
2.983	645,488	18	13	DEC 30,1974	
3.000	645,547	18	14	DEC 30,1974	
3,017	645,605	18	15	DEC 30,1974	
3,033	645,721	18	16	DEC 30,1974	
3,050	646,188	18	17	DEC 30,1974	
3,067	646,246	18	18	DEC 30,1974	
3,083	646,770	18	19	DEC 30,1974	
3,100	646,712	18	20	DEC 30,1974	
3.117	647,120	18	21	DEC 30,1974	
3.133	647.120	18	22	DEC 30,1974	
3,150	647,527	18	23	DEC 30,1974	
3.167	647.935	18	24	DEC 30,1974	
3.183	647.819	18	25	DEC 30,1974	
3,200	648,110	18	26	DEC 30,1974	
3,217	648.052	18	27	DEC 30,1974	
3,233	648,401	18	28	DEC 30,1974	
3,250	648,227	18	29	DEC 30,1974	
3,267	648,168	18	30	DEC 30,1974	
3,283	648,052	18	31	DEC 30,1974	
3,300	648,343	18	32	DEC 30,1974	
3.317	648,227	18	33	DEC 30,1974	

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DECEMBER 30 1974

GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
3,333	648,110	18	34	DEC 30,1974	
3,350	648,052	18	35	DEC 30,1974	
3,367	647,993	18	36	DEC 30,1974	
3.383	647,877	18	37	DEC 30,1974	
3,400	647,819	18	38	DEC 30,1974	
3,417	647,760	18	39	DEC 30,1974	
3,433	647.702	18	40	DEC 30,1974	START JETTING
3.450	647,586	18	41	DEC 30,1974	
3.467	647,586	18	42	DEC 30,1974	
3.483	659,062	18	43	DEC 30,1974	
3.500	680,093	18	44	DEC 30,1974	
3.517	611.875	18	45	DEC 30,1974	
3,533	586,253	18	46	DEC 30,1974	
3,550	587.365	18	47	DEC 30,1974	
3.567	608,895	18	48	DEC 30,1974	
3,583	627,196	18	49	DEC 30,1974	
3.600	619,390	18	50	DEC 30,1974	
3,617	615,661	18	51	DEC 30,1974	
3.633	614.496	18	52	DEC 30,1974	
3.650	613,564	18	53	DEC 30,1974	
3,667	613,331	18	54	DEC 30,1974	
3.683	612,982	18	55	DEC 30,1974	
3.700	612,982	18	56	DEC 30,1974	
3.717	612.865	18	57	DEC 30,1974	
3,733	612.982	18	58	DEC 30,1974	
3,750	613,098	18	59	DEC 30,1974	
3.767	613,040	19	00	DEC 30,1974	
3.783	612.923	19	01	DEC 30,1974	
3,800	612,865	19	02	DEC 30,1974	
3,817	612,865	19	03	DEC 30,1974	
3.833	612,865	19	04	DEC 30,1974	
3,850	612,749	19	05	DEC 30,1974	
3,867	612,923	19	06	DEC 30,1974	
3,883	612,923	19	07	DEC 30,1974	
3,900	612,923	19	08	DEC 30,1974	
3,917	612,865	19	09	DEC 30,1974	
3,933	612,749	19	10	DEC 30,1974	
3,950	612,341	19	11	DEC 30,1974	
3,967	612,166	19	12	DEC 30,1974	
3,983	612,166	19	13	DEC 30,1974	

JOB NUMBER
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DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4,000	612,282	19	14	DEC 30,1974	
4,017	612,632	19	15	DEC 30,1974	
4,033	612,632	19	16	DEC 30,1974	
4,050	612,399	19	17	DEC 30,1974	
4.067	612,282	19	18	DEC 30,1974	
4,083	611,642	19	19	DEC 30,1974	
4,100	611,001	19	20	DEC 30,1974	
4,117	611,642	19	21	DEC 30,1974	
4,133	611,991	19	22	DEC 30,1974	
4,150	611,991	19	23	DEC 30,1974	
4,167	611,933	19	24	DEC 30,1974	
4,183	611,933	19	25	DEC 30,1974	
4.200	611,758	19	26	DEC 30,1974	
4,217	611,758	19	27	DEC 30,1974	
4,233	611,700	19	28	DEC 30,1974	
4,250	611.700	19	29	DEC 30,1974	
4,267	611.816	19	30	DEC 30,1974	
4.283	611.700	19	31	DEC 30,1974	
4.300	611,700	19	32	DEC 30,1974	
4,317	611,758	19	33	DEC 30,1974	
4,333	611,758	19	34	DEC 30,1974	
4.350	611,758	19	35	DEC 30,1974	
4.367	611.642	19	36	DEC 30,1974	
4,383	611.642	19	37	DEC 30,1974	
4.400	611,758	19	38	DEC 30,1974	
4,417	611.700	19	39	DEC 30,1974	
4,433	611,642	19	40	DEC 30,1974	END JETTING
4,450	611,583	19	41	DEC 30,1974	
4.467	611,467	19	42	DEC 30,1974	
4.483	611.583	19	43	DEC 30,1974	
4,500	611,467	19	44	DEC 30,1974	
4,517	611,467	19	45	DEC 30,1974	
4.533	611,409	19	46	DEC 30,1974	
4,550	611,409	19	47	DEC 30,1974	
4,567	611.409	19	48	DEC 30,1974	
4,583	580,461	19	49	DEC 30,1974	
4,600	581.397	19	50	DEC 30,1974	
4,617	586.604	19	51	DEC 30,1974	
4,633	590.583	19	52	DEC 30,1974	
4,650	593,970	19	53	DEC 30,1974	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4,667	597,194	19	54	DEC 30,1974	
4,683	600,002	19	55	DEC 30,1974	
4,700	602,459	19	56	DEC 30,1974	
4,717	604,682	19	57	DEC 30,1974	
4,733	606,730	19	58	DEC 30,1974	
4,750	608,895	19	59	DEC 30,1974	
4,767	610,942	20	00	DEC 30,1974	
4,783	612,865	20	01	DEC 30,1974	
4,800	614,671	20	02	DEC 30,1974	
4,817	616,419	20	03	DEC 30,1974	
4,833	618,166	20	04	DEC 30,1974	
4,850	619,798	20	05	DEC 30,1974	
4,867	621,429	20	06	DEC 30,1974	
4,883	622,769	20	07	DEC 30,1974	
4,900	624,108	20	08	DEC 30,1974	
4,917	625,390	20	09	DEC 30,1974	
4,933	626,380	20	10	DEC 30,1974	
4,950	627,254	20	11	DEC 30,1974	
4,967	628,361	20	12	DEC 30,1974	
4,983	629,410	20	13	DEC 30,1974	
5,000	630,400	20	14	DEC 30,1974	
5,017	630,866	20	15	DEC 30,1974	
5,033	631,624	20	16	DEC 30,1974	
5,050	632,090	20	17	DEC 30,1974	
5,067	632,439	20	18	DEC 30,1974	
5,083	632,847	20	19	DEC 30,1974	
5,100	633,080	20	20	DEC 30,1974	
5,117	633,546	20	21	DEC 30,1974	
5,133	634,303	20	22	DEC 30,1974	
5,150	635,002	20	23	DEC 30,1974	
5,167	635,585	20	24	DEC 30,1974	
5,183	636,167	20	25	DEC 30,1974	
5,200	636,808	20	26	DEC 30,1974	
5,217	637,274	20	27	DEC 30,1974	
5,233	637,799	20	28	DEC 30,1974	
5,250	638,265	20	29	DEC 30,1974	
5,267	638,847	20	30	DEC 30,1974	
5,283	639,255	20	31	DEC 30,1974	
5,300	639,605	20	32	DEC 30,1974	
5,317	640,012	20	33	DEC 30,1974	

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GAUGE/RUN NUMBER
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DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
5,333	640,304	20	34	DEC 30,1974	
5,350	640,653	20	35	DEC 30,1974	
5,367	641,003	20	36	DEC 30,1974	
5,383	641,352	20	37	DEC 30,1974	
5,400	641,644	20	38	DEC 30,1974	
5,417	641,877	20	39	DEC 30,1974	
5,433	642,110	20	40	DEC 30,1974	
5,450	642,343	20	41	DEC 30,1974	
5,467	642,634	20	42	DEC 30,1974	
5,483	642,867	20	43	DEC 30,1974	
5,500	643,042	20	44	DEC 30,1974	
5,517	643,275	20	45	DEC 30,1974	
5,533	643,450	20	46	DEC 30,1974	
5,550	643,624	20	47	DEC 30,1974	
5,567	643,799	20	48	DEC 30,1974	
5,583	643,974	20	49	DEC 30,1974	
5,600	644,090	20	50	DEC 30,1974	
5,617	644,207	20	51	DEC 30,1974	
5,633	644,323	20	52	DEC 30,1974	
5,650	644,440	20	53	DEC 30,1974	
5,667	644,615	20	54	DEC 30,1974	
5,683	644,731	20	55	DEC 30,1974	
5,700	644,848	20	56	DEC 30,1974	
5,717	644,964	20	57	DEC 30,1974	
5,733	645,081	20	58	DEC 30,1974	
5,750	645,197	20	59	DEC 30,1974	
5,767	645,255	21	00	DEC 30,1974	
5,783	645,314	21	01	DEC 30,1974	
5,800	645,430	21	02	DEC 30,1974	
5,817	645,488	21	03	DEC 30,1974	
5,833	645,547	21	04	DEC 30,1974	
5,850	645,663	21	05	DEC 30,1974	
5,867	645,721	21	06	DEC 30,1974	
5,883	645,780	21	07	DEC 30,1974	
5,900	645,838	21	08	DEC 30,1974	
5,917	645,896	21	09	DEC 30,1974	
5,933	645,955	21	10	DEC 30,1974	
5,950	646,071	21	11	DEC 30,1974	
5,967	646,071	21	12	DEC 30,1974	
5,983	646,188	21	13	DEC 30,1974	

JOB NUMBER
SPG-11210-CC

DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6,000	646,246	21	14	DEC 30,1974	
6,017	646,246	21	15	DEC 30,1974	60 GPM DOWN
6,033	646,362	21	16	DEC 30,1974	ANNULUS
6,050	646,362	21	17	DEC 30,1974	
6,067	646,479	21	18	DEC 30,1974	
6,083	646,479	21	19	DEC 30,1974	
6,100	646,537	21	20	DEC 30,1974	
6.117	646,595	21	21	DEC 30,1974	
6,133	646.595	21	22	DEC 30,1974	
6,150	646,654	21	23	DEC 30,1974	
6.167	646,712	21	24	DEC 30,1974	
6.183	646,770	21	25	DEC 30,1974	
6,200	646,828	21	26	DEC 30,1974	
6.217	646,828	21	27	DEC 30,1974	
6,233	646,828	21	28	DEC 30,1974	
6,250	646.828	21	29	DEC 30,1974	
6,267	646,887	21	30	DEC 30,1974	
6,283	646,945	21	31	DEC 30,1974	
6,300	646,887	21	32	DEC 30,1974	
6,317	646,945	21	33	DEC 30,1974	
6,333	647,003	21	34	DEC 30,1974	
6.350	647,003	21	35	DEC 30,1974	
6,367	646,945	21	36	DEC 30,1974	
6.383	647,003	21	37	DEC 30,1974	
6,400	647,061	21	38	DEC 30,1974	
6,417	647,061	21	39	DEC 30,1974	
6,433	647,120	21	40	DEC 30,1974	
6,450	647,120	21	41	DEC 30,1974	
6,467	647,120	21	42	DEC 30,1974	
6,483	647.120	21	43	DEC 30,1974	
6,500	647,120	21	44	DEC 30,1974	
6,517	647.120	21	45	DEC 30,1974	DECLINE
6,533	647.178	21	46	DEC 30,1974	
6,550	647,236	21	47	DEC 30,1974	
6,567	647,178	21	48	DEC 30,1974	
6,583	647,178	21	49	DEC 30,1974	
6,600	647,294	21	50	DEC 30,1974	
6,617	647,294	21	51	DEC 30,1974	
6.633	647,294	21	52	DEC 30,1974	
6,650	647,294	21	53	DEC 30,1974	

JOB NUMBER
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DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6.667	647.294	21	54	DEC 30,1974	
6.683	647.353	21	55	DEC 30,1974	
6.700	647.353	21	56	DEC 30,1974	
6.717	647.353	21	57	DEC 30,1974	
6.733	647.353	21	58	DEC 30,1974	
6.750	647.353	21	59	DEC 30,1974	
6.767	647.469	22	00	DEC 30,1974	
6.783	647.353	22	01	DEC 30,1974	
6.800	647.469	22	02	DEC 30,1974	
6.817	647.469	22	03	DEC 30,1974	
6.833	647.411	22	04	DEC 30,1974	
6.850	647.469	22	05	DEC 30,1974	
6.867	647.527	22	06	DEC 30,1974	
6.883	647.527	22	07	DEC 30,1974	
6.900	647.527	22	08	DEC 30,1974	
6.917	647.527	22	09	DEC 30,1974	
6.933	647.527	22	10	DEC 30,1974	2 GPM INSIDE
6.950	647.527	22	11	DEC 30,1974	DRILL PIPE
6.967	647.586	22	12	DEC 30,1974	
6.983	647.586	22	13	DEC 30,1974	
7.000	647.586	22	14	DEC 30,1974	
7.017	647.586	22	15	DEC 30,1974	
7.033	647.586	22	16	DEC 30,1974	
7.050	648.693	22	17	DEC 30,1974	
7.067	652.071	22	18	DEC 30,1974	
7.083	655.159	22	19	DEC 30,1974	
7.100	658.188	22	20	DEC 30,1974	
7.117	660.810	22	21	DEC 30,1974	
7.133	663.257	22	22	DEC 30,1974	
7.150	665.762	22	23	DEC 30,1974	
7.167	668.034	22	24	DEC 30,1974	
7.183	670.247	22	25	DEC 30,1974	
7.200	672.286	22	26	DEC 30,1974	
7.217	674.209	22	27	DEC 30,1974	
7.233	676.189	22	28	DEC 30,1974	
7.250	678.054	22	29	DEC 30,1974	
7.267	679.801	22	30	DEC 30,1974	5 GPM INSIDE
7.283	681.316	22	31	DEC 30,1974	DRILL PIPE
7.300	682.831	22	32	DEC 30,1974	
7.317	684.345	22	33	DEC 30,1974	

JOB NUMBER
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DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
7,333	685,802	22	34	DEC 30,1974	
7,350	687,200	22	35	DEC 30,1974	
7,367	690,054	22	36	DEC 30,1974	
7,383	693.492	22	37	DEC 30,1974	
7,400	696,637	22	38	DEC 30,1974	
7,417	699,375	22	39	DEC 30,1974	
7,433	702,230	22	40	DEC 30,1974	
7,450	705,026	22	41	DEC 30,1974	
7,467	707,473	22	42	DEC 30,1974	
7,483	709,978	22	43	DEC 30,1974	
7,500	712,425	22	44	DEC 30,1974	
7,517	714,872	22	45	DEC 30,1974	
7,533	716,969	22	46	DEC 30,1974	
7,550	719,299	22	47	DEC 30,1974	
7,567	721,454	22	48	DEC 30,1974	
7,583	723,726	22	49	DEC 30,1974	
7,600	725,707	22	50	DEC 30,1974	10 GPM INSIDE
7,617	727,571	22	51	DEC 30,1974	DRILL PIPE
7,633	729,494	22	52	DEC 30,1974	
7,650	731,300	22	53	DEC 30,1974	
7,667	732.989	22	54	DEC 30,1974	
7,683	735,203	22	55	DEC 30,1974	
7,700	744,349	22	56	DEC 30,1974	
7,717	752,680	22	57	DEC 30,1974	
7,733	760,661	22	58	DEC 30,1974	
7,750	768,292	22	59	DEC 30,1974	
7,767	775,516	23	00	DEC 30,1974	
7,783	782,449	23	01	DEC 30,1974	
7,800	789,090	23	02	DEC 30,1974	
7,817	795,382	23	03	DEC 30,1974	
7,833	801,673	23	04	DEC 30,1974	
7,850	807,907	23	05	DEC 30,1974	
7,867	813,441	23	06	DEC 30,1974	
7,883	819,150	23	07	DEC 30,1974	
7,900	766,253	23	08	DEC 30,1974	
7,917	771,263	23	09	DEC 30,1974	
7,933	776,390	23	10	DEC 30,1974	OVERFLOW 12
7,950	781,167	23	11	DEC 30,1974	GPM INSIDE
7,967	785,944	23	12	DEC 30,1974	DRILL PIPE
7,983	790,430	23	13	DEC 30,1974	

JOB NUMBER
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DATE OF JOB
DECEMBER 30 1974

GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
8,000	809,188	23 14	DEC 30,1974	
8,017	806,450	23 15	DEC 30,1974	
8,033	811,868	23 16	DEC 30,1974	
8,050	811,985	23 17	DEC 30,1974	
8,067	811,926	23 18	DEC 30,1974	
8,083	811,985	23 19	DEC 30,1974	
8,100	811,285	23 20	DEC 30,1974	
8,117	813,790	23 21	DEC 30,1974	
8,133	814,024	23 22	DEC 30,1974	
8,150	814,257	23 23	DEC 30,1974	
8,167	872,513	23 24	DEC 30,1974	
8,183	872,513	23 25	DEC 30,1974	
8,200	872,513	23 26	DEC 30,1974	
8,217	872,454	23 27	DEC 30,1974	
8,233	872,396	23 28	DEC 30,1974	
8,250	872,454	23 29	DEC 30,1974	
8,267	872,454	23 30	DEC 30,1974	END OVERFLOW
8,283	872,454	23 31	DEC 30,1974	START DECLINE
8,300	872,163	23 32	DEC 30,1974	
8,317	861,269	23 33	DEC 30,1974	
8,333	853,113	23 34	DEC 30,1974	
8,350	845,831	23 35	DEC 30,1974	
8,367	838,782	23 36	DEC 30,1974	
8,384	831,675	23 37	DEC 30,1974	
8,400	825,558	23 38	DEC 30,1974	
8,417	819,500	23 39	DEC 30,1974	
8,434	813,557	23 40	DEC 30,1974	
8,450	808,023	23 41	DEC 30,1974	
8,467	802,139	23 42	DEC 30,1974	
8,484	796,780	23 43	DEC 30,1974	
8,500	791,770	23 44	DEC 30,1974	
8,517	787,051	23 45	DEC 30,1974	
8,534	782,332	23 46	DEC 30,1974	
8,550	778,021	23 47	DEC 30,1974	
8,567	773,710	23 48	DEC 30,1974	
8,584	769,516	23 49	DEC 30,1974	
8,600	765,205	23 50	DEC 30,1974	
8,617	761,418	23 51	DEC 30,1974	
8,634	757,515	23 52	DEC 30,1974	
8,650	753,845	23 53	DEC 30,1974	

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GAUGE/RUN NUMBER
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
8,667	750,524	23	54	DEC 30,1974	
8,684	747,262	23	55	DEC 30,1974	
8,700	744,174	23	56	DEC 30,1974	
8,717	741,087	23	57	DEC 30,1974	
8,734	737,941	23	58	DEC 30,1974	
8,750	735,028	23	59	DEC 30,1974	
8,767	732,348	00	00	DEC 31,1974	
8,784	729,843	00	01	DEC 31,1974	
8,800	727,222	00	02	DEC 31,1974	
8,817	724,717	00	03	DEC 31,1974	
8,834	722,270	00	04	DEC 31,1974	
8,850	674,850	00	05	DEC 31,1974	END TEST

532 POINTS REPORTED THIS RUN

JOHNSTON
Schlumberger

technical report

COMPANY ATLANTIC-RICHFIELD COMPANY
WELL FEDERAL S.G. #17
TEST NO. 32
COUNTY RIO BLANCO
STATE COLORADO

II B-1408

F.R. #09084 C

PAGE 1

JOHNSTON
...found a better way

SURFACE INFORMATION

iption (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	0310	-	-
CLOSED FOR INITIAL SHUT-IN	0313	-	-
FINISHED SHUT-IN	0343	-	-
RE-OPENED TOOL	0345	-	-
STARTED INJECTING WATER AT			
RATE OF 2 GAL./MIN. FROM	0827	-	-
TO	0847	-	-
INJECTING 5 GAL./MIN. FROM	0847	-	-
TO	0909	-	-
INJECTING 11 GAL./MIN. FROM	0909	-	-
TO	0927	-	-
INJECTING 20 GAL./MIN. FROM	0927	-	-
TO	0937	-	-
CLOSED TOOL	1018	-	-
PULLED PACKER LOOSE	1020	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER FOAM Wt. -

Viscosity - Water Loss - C.C.

Resist: of Mud - @ - °F; of Filtrate - @ - °F

Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE

Formation Tested GREEN RIVER

Elevation 7036 Ft.

Net Productive Interval 52 Ft.

Estimated Porosity - %

All Depths Measured From GROUND LEVEL

Total Depth 2020 Ft.

Main Hole/Casing Size 6 3/4"

Rat Hole/Liner Size -

Drill Collar Length 297' I.D. -

Drill Pipe Length 1618' I.D. -

Packer Depth(s) 1964 & 1968 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure P.S.I.G. at Surface

Recovery: Cu. Ft. Gas

cc. Oil

cc. Water

cc. Mud

Tot. Liquid cc.

Gravity °API @ °F.

Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

C any ATLANTIC-RICHFIELD COMPANY

Field SORGHUM GULCH

Well FEDERAL S. G. #17

Location 436'FWL 181'FSL SEC. 16-3S-96W

Test Interval 1968' TO 2020'

Test # 32

Date 1-1-75

County RIO BLANCO

State COLORADO

II B-1409

Field Report No. 09084 C

Technician BURNS(VERNAL)

Test Approved By MR. ALLEN D. WALLER

No. Reports Requested 14(13x)

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4097 N PRESSURE(P.S.I.G.)	INSTRUMENT #4633 N PRESSURE(P.S.I.G.)
INITIAL HYDROSTATIC	1	-		652.5	645.0
PACKER WAS SET	2	-		658.2	649.0
TOOL OPENED	3	0310	0	92.3	79.9
CLOSED FOR INITIAL SHUT-IN	4	0312	2	112.0	83.8
			4	416.1	423.4
			6	576.5	588.6
			8	583.6	583.4
			10	587.8	582.1
			12	587.8	580.8
			14	587.8	580.8
			16	587.8	580.8
			18	587.8	580.8
			20	587.8	580.8
			22	589.2	583.4
			24	589.2	583.4
			26	590.6	583.4
			28	590.6	583.4
			30	590.6	583.4
			32	590.6	583.4
			34	592.0	583.4
INITIAL SHUT-IN	5	0345	35	592.0	586.0
TOOL RE-OPENED	6	0346	36	131.8	132.3
			38	133.2	133.6
			40	133.2	133.6
			42	134.6	133.6
			44	134.6	133.6
			46	134.6	133.6
			48	134.6	133.6
			50	136.0	135.0
			52	136.0	135.0
			54	136.0	135.0
			56	136.0	135.0
			58	136.0	135.0
			60	136.0	135.0
			62	136.0	135.0
			64	136.0	135.0
			66	136.0	135.0
			68	136.0	135.0
			70	136.0	135.0
			72	136.0	135.0
			74	136.0	135.0
			76	136.0	136.3
			78	137.4	136.3
			80	137.4	136.3
			82	137.4	136.3
			84	137.4	136.3
			86	137.4	136.3
			88	137.4	136.3
			90	137.4	136.3
			92	137.4	136.3
			94	137.4	136.3
			96	137.4	137.6
			98	137.4	137.6
			100	137.4	137.6

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4097 N PRESSURE(P.S.I.G.)	INSTRUMENT #4633 N PRESSURE(P.S.I.G.)
			102	137.4	137.6
			104	137.4	137.6
			106	137.4	137.6
			108	137.4	137.6
			110	137.4	137.6
			112	138.8	137.6
			114	138.8	137.6
			116	138.8	137.6
			118	138.8	137.6
			120	138.8	137.6
			122	138.8	137.6
			124	138.8	137.6
			126	138.8	137.6
			128	138.8	138.9
			130	138.8	138.9
			132	138.8	138.9
			134	138.8	138.9
			136	138.8	138.9
			138	138.8	138.9
			140	138.8	138.9
			142	138.8	138.9
			144	138.8	138.9
			146	138.8	138.9
			148	138.8	138.9
			150	138.8	138.9
			152	138.8	138.9
			154	138.8	138.9
			156	138.8	138.9
			158	138.8	140.2
			160	138.8	140.2
			162	140.2	140.2
			164	140.2	140.2
			166	140.2	140.2
			168	140.2	140.2
			170	140.2	140.2
			172	140.2	140.2
			174	140.2	140.2
			176	140.2	140.2
			178	140.2	140.2
			180	140.2	140.2
			182	140.2	140.2
			184	140.2	140.2
			186	140.2	140.2
			188	140.2	140.2
			190	140.2	141.5
			192	140.2	141.5
			194	140.2	141.5
			196	140.2	141.5
			198	140.2	141.5
			200	140.2	141.5
			202	140.2	141.5
		II B-1411	204	140.2	141.5
			206	140.2	141.5
			208	140.2	141.5
			210	140.2	141.5

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4097 N PRESSURE (P.S.I.G.)	INSTRUMENT #4633 N PRESSURE (P.S.I.G.)
			212	140.2	141.5
			214	141.6	141.5
			216	141.6	141.5
			218	141.6	141.5
			220	141.6	141.5
			222	141.6	141.5
			224	141.6	141.5
			226	141.6	141.5
			228	141.6	142.8
			230	141.6	142.8
			232	141.6	142.8
			234	141.6	142.8
			236	141.6	142.8
			238	141.6	142.8
			240	141.6	142.8
			242	141.6	142.8
			244	141.6	142.8
			246	141.6	142.8
			248	141.6	142.8
			250	141.6	142.8
			252	141.6	142.8
			254	141.6	142.8
			256	141.6	142.8
			258	141.6	144.1
			260	141.6	144.1
			262	141.6	144.1
			264	141.6	144.1
			266	141.6	144.1
			268	141.6	144.1
			270	141.6	144.1
			272	141.6	144.1
			274	141.6	144.1
			276	141.6	144.1
			278	141.6	144.1
			280	141.6	144.1
			282	141.6	144.1
			284	141.6	144.1
			286	141.6	144.1
			288	141.6	144.1
			290	143.0	144.1
			292	143.0	144.1
			294	143.0	144.1
			296	143.0	144.1
			298	143.0	144.1
			300	143.0	145.5
			302	143.0	145.5
			304	143.0	145.5
			306	143.0	145.5
			308	143.0	145.5
			310	143.0	145.5
			312	143.0	145.5
			314	143.0	145.5
			316	143.0	145.5
			318	143.0	145.5
			320	143.0	145.5

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DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4097 N PRESSURE (P.S.I.G.)	INSTRUMENT #4633 N PRESSURE (P.S.I.G.)
			322	144.4	145.5
			324	144.4	145.5
			326	144.4	145.5
			328	144.4	145.5
STARTED INJECTION - 2 GAL./MIN.	7	0829	329	144.4	145.5
			330	150.0	148.1
			332	159.9	157.3
			334	171.2	166.4
			336	181.0	175.6
			338	190.9	186.1
			340	206.3	199.2
			342	219.0	212.3
			344	234.5	228.1
			346	248.6	241.2
INJECTING 5 GAL./MIN.			348	262.6	255.6
			350	276.7	271.3
			352	289.4	284.4
			354	304.9	297.6
			356	320.4	312.0
			358	341.5	326.4
			360	371.0	339.5
INJECTING 11GAL./MIN.	8	0911	361	372.4	343.4
			362	383.7	367.0
			364	417.5	396.0
			366	445.6	427.4
			368	475.2	457.5
			370	504.7	487.7
			372	535.7	515.2
			374	565.3	546.7
INJECTING 20 GAL./MIN.	9	0925	375	569.5	562.4
			376	586.4	571.6
			378	614.5	597.8
			380	646.9	626.7
			382	677.9	663.4
			384	729.9	710.6
			386	767.9	753.9
			388	807.5	798.4
			390	841.1	837.8
FINISHED INJECTION	10	0941	391	853.8	849.6
			392	855.2	849.6
			394	858.0	850.9
			396	856.6	849.6
			398	855.2	849.6
			400	853.8	848.3
			402	853.8	848.3
			404	853.8	848.3
			406	853.8	848.3
			408	853.8	848.3
			410	852.4	848.3
			412	852.4	846.9
			414	852.4	846.9
			416	851.0	846.9

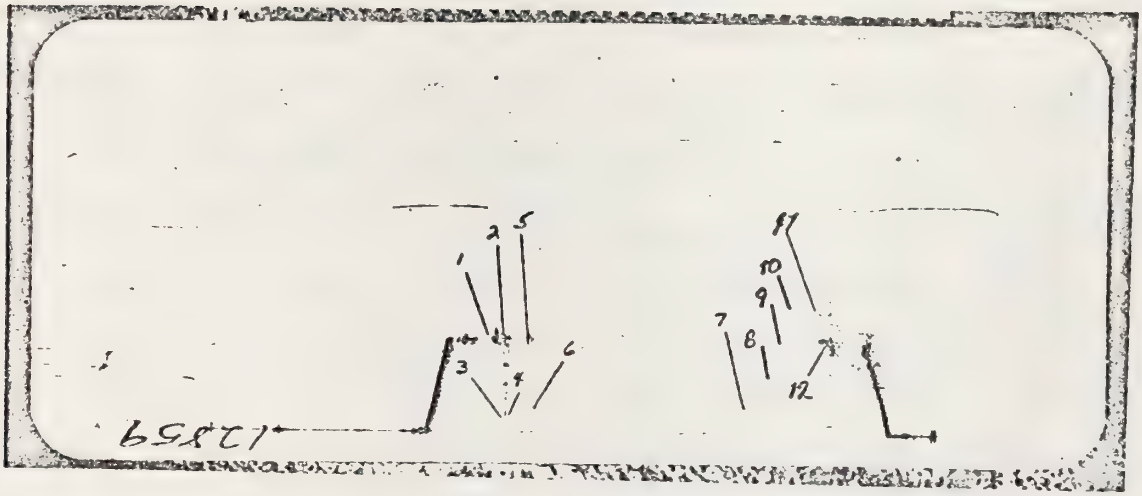
DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4097 N PRESSURE(P.S.I.G.)	INSTRUMENT #4633 N PRESSURE(P.S.I.G.
			418	851.0	846.9
			420	851.0	845.6
			422	851.0	845.6
			424	851.0	845.6
			426	851.0	845.6
CLOSED TOOL - PULLED PACKER LOOSE	11	1018	428	851.0	845.6
FINAL HYDROSTATIC	12	-	-	656.7	652.9

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):	2800#	2650#
DEPTH:	1969'	1943'
INSTRUMENT OPENING:	OUTSIDE	INSIDE

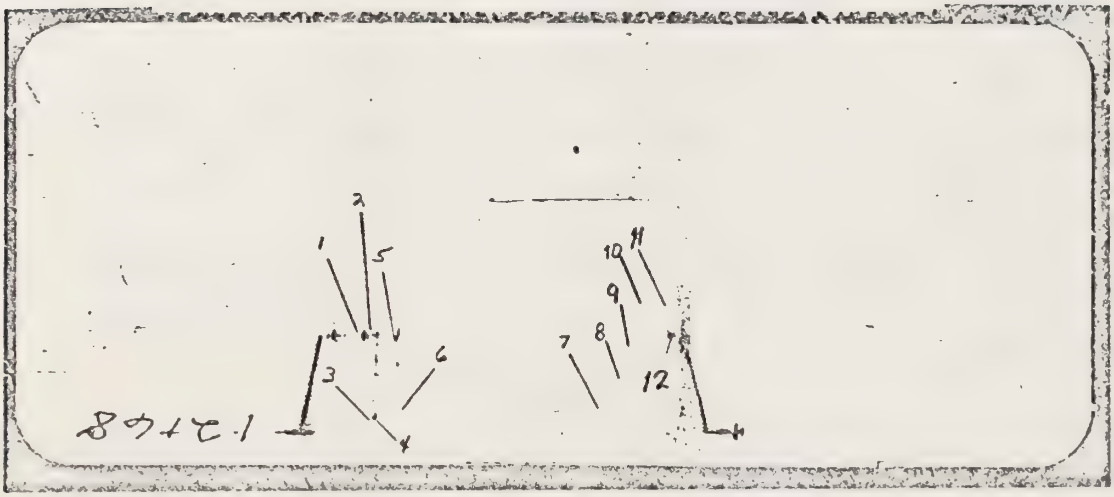
JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09084 C	4097 N
CAPACITY	**REPORTS REQUESTED**
2800 #	14+



JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09084 C	4633 N
CAPACITY	**REPORTS REQUESTED**
2650#	14+



PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. [illegible] Date 12/31/74 Run DST #2 Office CASPER

Customer ARCO ET AL Location [illegible]

State COLO. County/Parish RIO BLANCO

Well SC # No. 17 Field TRACT C-b

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/Dock	1. 1900	12/31/74			
Depart: Well/Dock	1. 1330	1/1/75			18½ Hrs.
Gauge Start in Hole	1. 2154	12/31/74			
Gauge Out of Hole	1. 1213	1/1/75			14½ Hrs.

No. Trips 1 Miles 90 Total Mileage 90

Top Gauge # 189 Element # 35494 Range 1?00 lb Time Mode Linear

Btm. Gauge # 136 Element # 35336 Range 2000 lb Time Mode Linear

Type Tool ______ Test Depth 1968 - 2020 Zero Point GROUND LEVEL

Packer Depth 1944/1968 Tail Pipe Depth 2020' Top Gauge Depth 1939'

Bottom Hole Temp. ______ Atmos. Temp. ______ Bottom Gauge Depth 1989'

TIME INFORMATION	Time	Date	PRESSURE INFORMATION	
On Bottom		1/1/75	Initial Hydrostatic Mud	
Packer Set	0307	"	Initial Draw Down	601
Initial Open	0310	"	Initial Build-Up	601
Initial Shut-In	0313	"	Final Flow	602
Start Flow	0345	"	Final Build-Up	710
Final Shut-In	1018	"	Final Hydrostatic Mud	
Packer Unseated	1020	"	Mud Weight	

TIME OF SURFACE NULLS

Top Gauge 2143 2144 2145 Bottom Gauge 0029 0030 0031

Remarks

SP-423

II B-1416

Operator

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31 1974

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT CB SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 189 WITH 1400 LB. ELEMENT

GAUGE DEPTH IS 1929 FT. OUTSIDE DRILL PIPE

ABOVE PACKER SET AT 1966 FEET

GROUND LEVEL REFERENCE IS 7036 FEET

INITIAL HYDROSTATIC IS 630.90 PSI

FINAL HYDROSTATIC IS 632.20 PSI

TEST INTERVAL IS FROM SURFACE TO

1966 FEET NPACKER DEPTH

428 POINTS REPORTED THIS JOB

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JOB NUMBER                                                            DATE OF JOB
SPG-11210-DD                                                     DECEMBER 31 1974

GAUGE/RUN NUMBER                                                      DATE OF RUN
189   DST 32 INIT.OPEN

                                   SPERRY-SUN
                    PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                     TIME      DATE            COMMENTS
    TIME      (PSI)                      HR MIN

    0.000    633.312                     03  10 DEC 31,1974   INITIAL OPEN
     .017    633.377                     03  11 DEC 31,1974
     .033    633.837                     03  12 DEC 31,1974
     .050    634.133                     03  13 DEC 31,1974   END OPEN
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                         4 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 SHUT IN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	634,133	03	13	DEC 31,1974	INITIAL CLOSE
,017	633,377	03	14	DEC 31,1974	
,034	633,574	03	15	DEC 31,1974	
,052	633,607	03	16	DEC 31,1974	
,069	633,673	03	17	DEC 31,1974	
,086	633,739	03	18	DEC 31,1974	
,103	633,804	03	19	DEC 31,1974	
,120	633,804	03	20	DEC 31,1974	
,138	633,870	03	21	DEC 31,1974	
,155	633,870	03	22	DEC 31,1974	
,172	633,936	03	23	DEC 31,1974	
,189	633,936	03	24	DEC 31,1974	
,206	633,936	03	25	DEC 31,1974	
,224	633,969	03	26	DEC 31,1974	
,241	634.035	03	27	DEC 31,1974	
,258	634.035	03	28	DEC 31,1974	
,275	634,067	03	30	DEC 31,1974	
,292	634.100	03	31	DEC 31,1974	
,310	634,133	03	32	DEC 31,1974	
,327	634,166	03	33	DEC 31,1974	
,344	634,199	03	34	DEC 31,1974	
,361	634,199	03	35	DEC 31,1974	
,378	634,199	03	36	DEC 31,1974	
,396	634,265	03	37	DEC 31,1974	
,413	634,265	03	38	DEC 31,1974	
,430	634,265	03	39	DEC 31,1974	
,447	634,297	03	40	DEC 31,1974	
,465	634,297	03	41	DEC 31,1974	
,482	634,297	03	42	DEC 31,1974	
,499	634,330	03	43	DEC 31,1974	
,516	634,363	03	44	DEC 31,1974	
,533	634,527	03	45	DEC 31,1974	END SHUT IN

32 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	634.527	03	45	DEC 31,1974	OPEN TO FLOW
.017	634.265	03	46	DEC 31,1974	
.034	634.363	03	47	DEC 31,1974	
.050	634.527	03	48	DEC 31,1974	
.067	634.659	03	49	DEC 31,1974	
.084	634.659	03	50	DEC 31,1974	
.101	634.692	03	51	DEC 31,1974	
.117	634.725	03	52	DEC 31,1974	
.134	634.725	03	53	DEC 31,1974	
.151	634.758	03	54	DEC 31,1974	
.168	634.758	03	55	DEC 31,1974	
.184	634.790	03	56	DEC 31,1974	
.201	634.823	03	57	DEC 31,1974	
.218	634.856	03	58	DEC 31,1974	
.235	634.856	03	59	DEC 31,1974	
.251	634.856	04	00	DEC 31,1974	
.268	634.922	04	01	DEC 31,1974	
.285	634.922	04	02	DEC 31,1974	
.302	634.922	04	03	DEC 31,1974	
.318	634.922	04	04	DEC 31,1974	
.335	634.955	04	05	DEC 31,1974	
.352	634.955	04	06	DEC 31,1974	
.369	634.955	04	07	DEC 31,1974	
.385	634.988	04	08	DEC 31,1974	
.402	635.053	04	09	DEC 31,1974	
.419	635.020	04	10	DEC 31,1974	
.436	635.020	04	11	DEC 31,1974	
.452	635.053	04	12	DEC 31,1974	
.469	635.053	04	13	DEC 31,1974	
.486	635.053	04	14	DEC 31,1974	
.503	635.053	04	15	DEC 31,1974	
.519	635.119	04	16	DEC 31,1974	
.536	635.119	04	17	DEC 31,1974	
.553	635.152	04	18	DEC 31,1974	
.570	635.152	04	19	DEC 31,1974	
.586	635.185	04	20	DEC 31,1974	
.603	635.185	04	21	DEC 31,1974	
.620	635.185	04	22	DEC 31,1974	
.637	635.185	04	23	DEC 31,1974	
.653	635.250	04	24	DEC 31,1974	

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
,670	635,250	04	25	DEC 31,1974	
,687	635,283	04	26	DEC 31,1974	
,704	635,316	04	27	DEC 31,1974	
,720	635,316	04	28	DEC 31,1974	
,737	635,316	04	29	DEC 31,1974	
,754	635,316	04	30	DEC 31,1974	
,771	635,349	04	31	DEC 31,1974	
,787	635,349	04	32	DEC 31,1974	
,804	635,382	04	33	DEC 31,1974	
,821	635,382	04	34	DEC 31,1974	
,838	635,415	04	35	DEC 31,1974	
,854	635,448	04	36	DEC 31,1974	
,871	635,448	04	37	DEC 31,1974	
,888	635,448	04	38	DEC 31,1974	
,905	635,448	04	39	DEC 31,1974	
,921	635,513	04	40	DEC 31,1974	
,938	635,513	04	41	DEC 31,1974	
,955	635,546	04	42	DEC 31,1974	
,972	635,546	04	43	DEC 31,1974	
,988	635,579	04	44	DEC 31,1974	
1,005	635,579	04	45	DEC 31,1974	
1,022	635,579	04	46	DEC 31,1974	
1,039	635,579	04	47	DEC 31,1974	
1,055	635,612	04	48	DEC 31,1974	
1,072	635,612	04	49	DEC 31,1974	
1,089	635,612	04	50	DEC 31,1974	
1,106	635,645	04	51	DEC 31,1974	
1,122	635,645	04	52	DEC 31,1974	
1,139	635,645	04	53	DEC 31,1974	
1,156	635,645	04	54	DEC 31,1974	
1,173	635,678	04	55	DEC 31,1974	
1,189	635,678	04	56	DEC 31,1974	
1,206	635,678	04	57	DEC 31,1974	
1,223	635,678	04	58	DEC 31,1974	
1,240	635,711	04	59	DEC 31,1974	
1,256	635,711	05	00	DEC 31,1974	
1,273	635,711	05	01	DEC 31,1974	
1,290	635,711	05	02	DEC 31,1974	
1,307	635,809	05	03	DEC 31,1974	
1,323	635,809	05	04	DEC 31,1974	

JOB NUMBER SPG-11210-DD	DATE OF JOB DECEMBER 31 1974
GAUGE/RUN NUMBER 189 DST 32 FINAL FLOW	DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,340	635,809	05	05	DEC 31,1974	
1,357	635,809	05	06	DEC 31,1974	
1,374	635,842	05	07	DEC 31,1974	
1,390	635,842	05	08	DEC 31,1974	
1,407	635,875	05	09	DEC 31,1974	
1,424	635,908	05	10	DEC 31,1974	
1,441	635,908	05	11	DEC 31,1974	
1,457	635,908	05	12	DEC 31,1974	
1,474	635,908	05	13	DEC 31,1974	
1,491	635,941	05	14	DEC 31,1974	
1,508	635,941	05	15	DEC 31,1974	
1,524	635,973	05	16	DEC 31,1974	
1,541	636,039	05	17	DEC 31,1974	
1,558	636,039	05	18	DEC 31,1974	
1,575	636,039	05	19	DEC 31,1974	
1,591	636,039	05	20	DEC 31,1974	
1,608	636,039	05	21	DEC 31,1974	
1,625	636,072	05	22	DEC 31,1974	
1,642	636,072	05	24	DEC 31,1974	
1,658	636,072	05	25	DEC 31,1974	
1,675	636,105	05	26	DEC 31,1974	
1,692	636,105	05	27	DEC 31,1974	
1,709	636,105	05	28	DEC 31,1974	
1,725	636,138	05	29	DEC 31,1974	
1,742	636,138	05	30	DEC 31,1974	
1,759	636,138	05	31	DEC 31,1974	
1,776	636,138	05	32	DEC 31,1974	
1,792	636,171	05	33	DEC 31,1974	
1,809	636,171	05	34	DEC 31,1974	
1,826	636,203	05	35	DEC 31,1974	
1,843	636,203	05	36	DEC 31,1974	
1,859	636,171	05	37	DEC 31,1974	
1,876	636,203	05	38	DEC 31,1974	
1,893	636,203	05	39	DEC 31,1974	
1,910	636,269	05	40	DEC 31,1974	
1,926	636,269	05	41	DEC 31,1974	
1,943	636,269	05	42	DEC 31,1974	
1,960	636,269	05	43	DEC 31,1974	
1,977	636,269	05	44	DEC 31,1974	
1,993	636,269	05	45	DEC 31,1974	

JOB NUMBER
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DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2.010	636.269	05	46	DEC 31,1974	
2.027	636.335	05	47	DEC 31,1974	
2.044	636.335	05	48	DEC 31,1974	
2.060	636.335	05	49	DEC 31,1974	
2.077	636.335	05	50	DEC 31,1974	
2.094	636.335	05	51	DEC 31,1974	
2.111	636.401	05	52	DEC 31,1974	
2.128	636.401	05	53	DEC 31,1974	
2.144	636.401	05	54	DEC 31,1974	
2.161	636.401	05	55	DEC 31,1974	
2.178	636.401	05	56	DEC 31,1974	
2.195	636.401	05	57	DEC 31,1974	
2.211	636.466	05	58	DEC 31,1974	
2.228	636.466	05	59	DEC 31,1974	
2.245	636.532	06	00	DEC 31,1974	
2.262	636.532	06	01	DEC 31,1974	
2.278	636.532	06	02	DEC 31,1974	
2.295	636.532	06	03	DEC 31,1974	
2.312	636.598	06	04	DEC 31,1974	
2.329	636.631	06	05	DEC 31,1974	
2.345	636.598	06	06	DEC 31,1974	
2.362	636.631	06	07	DEC 31,1974	
2.379	636.664	06	08	DEC 31,1974	
2.396	636.664	06	09	DEC 31,1974	
2.412	636.664	06	10	DEC 31,1974	
2.429	636.664	06	11	DEC 31,1974	
2.446	636.664	06	12	DEC 31,1974	
2.463	636.664	06	13	DEC 31,1974	
2.479	636.696	06	14	DEC 31,1974	
2.496	636.696	06	15	DEC 31,1974	
2.513	636.696	06	16	DEC 31,1974	
2.530	636.696	06	17	DEC 31,1974	
2.546	636.762	06	18	DEC 31,1974	
2.563	636.762	06	19	DEC 31,1974	
2.580	636.762	06	20	DEC 31,1974	
2.597	636.762	06	21	DEC 31,1974	
2.613	636.762	06	22	DEC 31,1974	
2.630	636.762	06	23	DEC 31,1974	
2.647	636.762	06	24	DEC 31,1974	
2.664	636.762	06	25	DEC 31,1974	

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,680	636,861	06	26	DEC 31,1974	
2.697	636,828	06	27	DEC 31,1974	
2,714	636,861	06	28	DEC 31,1974	
2,731	636,861	06	29	DEC 31,1974	
2,747	636,861	06	30	DEC 31,1974	
2,764	636.861	06	31	DEC 31,1974	
2,781	636,861	06	32	DEC 31,1974	
2,798	636,861	06	33	DEC 31,1974	
2,814	636,894	06	34	DEC 31,1974	
2,831	636,894	06	35	DEC 31,1974	
2.848	636.959	06	36	DEC 31,1974	
2,865	636,959	06	37	DEC 31,1974	
2,881	636,959	06	38	DEC 31,1974	
2.898	636,959	06	39	DEC 31,1974	
2,915	637,025	06	40	DEC 31,1974	
2,932	637,025	06	41	DEC 31,1974	
2,948	637,025	06	42	DEC 31,1974	
2,965	636,992	06	43	DEC 31,1974	
2,982	637,058	06	44	DEC 31,1974	
2,999	637,058	06	45	DEC 31,1974	
3,015	637,058	06	46	DEC 31,1974	
3,032	637,058	06	47	DEC 31,1974	
3,049	637,058	06	48	DEC 31,1974	
3,066	637,058	06	49	DEC 31,1974	
3,082	637,124	06	50	DEC 31,1974	
3.099	637,124	06	51	DEC 31,1974	
3,116	637,124	06	52	DEC 31,1974	
3.133	637.157	06	53	DEC 31,1974	
3,149	637,157	06	54	DEC 31,1974	
3,166	637,189	06	55	DEC 31,1974	
3,183	637,189	06	56	DEC 31,1974	
3,200	637,189	06	57	DEC 31.1974	
3,216	637,189	06	58	DEC 31,1974	
3,233	637,222	06	59	DEC 31,1974	
3,250	637,222	07	00	DEC 31,1974	61 GPM DOWN
3,267	637,222	07	01	DEC 31,1974	ANNULUS
3,283	637,288	07	02	DEC 31,1974	
3,300	637,321	07	03	DEC 31,1974	
3.317	637,354	07	04	DEC 31,1974	
3,334	637,387	07	05	DEC 31,1974	

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,350	638,931	07 06	DEC 31,1974	
3,367	641,363	07 07	DEC 31,1974	
3,384	643,499	07 08	DEC 31,1974	
3,401	645,241	07 09	DEC 31,1974	
3,417	646,654	07 10	DEC 31,1974	
3,434	647,870	07 11	DEC 31.1974	
3,451	648,921	07 12	DEC 31,1974	
3,468	649,414	07 13	DEC 31,1974	
3,484	649,316	07 14	DEC 31,1974	
3.501	649,973	07 15	DEC 31,1974	
3,518	650,893	07 16	DEC 31,1974	
3,535	651,715	07 17	DEC 31,1974	
3.551	652,405	07 18	DEC 31,1974	
3,568	652,931	07 19	DEC 31,1974	
3,585	653.424	07 20	DEC 31,1974	
3.602	653,851	07 21	DEC 31.1974	
3.618	654,245	07 22	DEC 31,1974	
3,635	654,541	07 23	DEC 31,1974	
3.652	654,837	07 24	DEC 31,1974	
3,669	655.198	07 25	DEC 31,1974	
3,685	655,560	07 26	DEC 31,1974	
3,702	655,823	07 27	DEC 31,1974	
3,719	656,020	07 28	DEC 31,1974	
3,736	656,250	07 29	DEC 31,1974	
3,752	656,414	07 30	DEC 31,1974	
3.769	656,611	07 31	DEC 31,1974	
3,786	656,710	07 32	DEC 31,1974	
3,803	656,907	07 33	DEC 31,1974	
3.819	657,137	07 34	DEC 31,1974	
3,836	657.367	07 35	DEC 31,1974	
3,853	657,531	07 36	DEC 31,1974	
3,870	657,663	07 37	DEC 31,1974	
3,886	657,729	07 38	DEC 31,1974	
3,903	657,893	07 39	DEC 31,1974	
3,920	657,992	07 40	DEC 31,1974	
3,937	658,057	07 41	DEC 31,1974	
3,953	658,189	07 42	DEC 31,1974	
3.970	658,287	07 43	DEC 31,1974	
3,987	658,386	07 44	DEC 31,1974	
4,004	658,550	07 45	DEC 31,1974	

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4,020	658,616	07	46	DEC 31,1974	
4,037	658,682	07	47	DEC 31,1974	
4,054	658,760	07	48	DEC 31,1974	
4,071	658,879	07	49	DEC 31,1974	
4,087	659,043	07	50	DEC 31,1974	
4,104	659,207	07	51	DEC 31,1974	
4,121	659,405	07	52	DEC 31,1974	
4,138	659,503	07	53	DEC 31,1974	
4,154	659,635	07	54	DEC 31,1974	
4,171	659,832	07	55	DEC 31,1974	
4,188	659,963	07	56	DEC 31,1974	
4,205	660,161	07	57	DEC 31,1974	
4,222	660,193	07	58	DEC 31,1974	
4,238	660,292	07	59	DEC 31,1974	
4,255	660.358	08	00	DEC 31,1974	END INJECTION
4,272	660,489	08	01	DEC 31,1974	START DECLINE
4,289	660.555	08	02	DEC 31,1974	
4,305	660,621	08	03	DEC 31,1974	
4,322	660,686	08	04	DEC 31,1974	
4,339	660.391	08	05	DEC 31,1974	
4,356	658,156	08	06	DEC 31,1974	
4,372	655,527	08	07	DEC 31,1974	
4,389	653,292	08	08	DEC 31,1974	
4,406	651.288	08	09	DEC 31,1974	
4,423	649,546	08	10	DEC 31,1974	
4,439	648,133	08	11	DEC 31,1974	
4,456	646,950	08	12	DEC 31,1974	
4,473	645,931	08	13	DEC 31,1974	
4,490	645,011	08	14	DEC 31,1974	
4,506	644,255	08	15	DEC 31,1974	
4,523	643,598	08	16	DEC 31,1974	
4,540	643,039	08	17	DEC 31,1974	
4,557	642,612	08	18	DEC 31,1974	
4.573	642,217	08	19	DEC 31,1974	
4,590	641,856	08	20	DEC 31,1974	
4,607	641,527	08	21	DEC 31,1974	
4,624	641,199	08	22	DEC 31,1974	
4,640	640,936	08	23	DEC 31,1974	
4,657	640,771	08	24	DEC 31,1974	
4,674	640,443	08	25	DEC 31,1974	

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DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4.691	640,344	08	26	DEC 31,1974	
4.707	640,147	08	27	DEC 31,1974	2 GPM DOWN DP
4,724	639,983	08	28	DEC 31,1974	
4,741	639,818	08	29	DEC 31,1974	
4,758	639,720	08	30	DEC 31,1974	
4,774	639,654	08	31	DEC 31,1974	
4,791	639,523	08	32	DEC 31,1974	
4,808	639,457	08	33	DEC 31,1974	
4,825	639,391	08	34	DEC 31,1974	
4,841	639,293	08	35	DEC 31,1974	
4.858	639,260	08	36	DEC 31,1974	
4.875	639,194	08	37	DEC 31,1974	
4,892	639,128	08	38	DEC 31,1974	
4,908	639,063	08	40	DEC 31,1974	
4,925	639,030	08	41	DEC 31,1974	
4,942	639.030	08	42	DEC 31,1974	
4.959	639.030	08	43	DEC 31,1974	
4,975	638,931	08	44	DEC 31,1974	
4,992	638,931	08	45	DEC 31,1974	
5,009	638,931	08	46	DEC 31,1974	
5,026	638.898	08	47	DEC 31,1974	5 GPM DOWN DP
5,042	638,865	08	48	DEC 31,1974	
5,059	638,865	08	49	DEC 31,1974	
5.076	638,833	08	50	DEC 31,1974	
5,093	638,800	08	51	DEC 31,1974	
5,109	638,734	08	52	DEC 31,1974	
5,126	638,734	08	53	DEC 31,1974	
5,143	638,701	08	54	DEC 31,1974	
5,160	638,767	08	55	DEC 31,1974	
5,176	638,734	08	56	DEC 31,1974	
5,193	638,668	08	57	DEC 31,1974	
5,210	638,668	08	58	DEC 31,1974	
5,227	638,668	08	59	DEC 31,1974	
5,243	638,668	09	00	DEC 31,1974	
5,260	638,668	09	01	DEC 31,1974	
5,277	638,668	09	02	DEC 31,1974	
5,294	638,668	09	03	DEC 31,1974	
5,310	638,668	09	04	DEC 31,1974	
5,327	638,635	09	05	DEC 31,1974	
5,344	638,668	09	06	DEC 31,1974	

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189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
5,361	638,668	09	07	DEC 31,1974	11 GPM DOWN DP
5,377	638,668	09	08	DEC 31,1974	
5,394	638,668	09	09	DEC 31,1974	
5,411	638,668	09	10	DEC 31,1974	
5,428	638,668	09	11	DEC 31,1974	
5,444	638,668	09	12	DEC 31,1974	
5,461	638,668	09	13	DEC 31,1974	
5,478	638,635	09	14	DEC 31,1974	
5,495	638,635	09	15	DEC 31,1974	
5,511	638,635	09	16	DEC 31,1974	
5,528	638.635	09	17	DEC 31,1974	
5,545	638,635	09	18	DEC 31,1974	
5,562	638.635	09	19	DEC 31,1974	
5,578	638,635	09	20	DEC 31,1974	
5,595	638,635	09	21	DEC 31,1974	
5,612	638,701	09	22	DEC 31,1974	
5,629	638,668	09	23	DEC 31,1974	
5,645	638.701	09	24	DEC 31,1974	
5,662	638,701	09	25	DEC 31,1974	
5,679	638,701	09	26	DEC 31,1974	
5,696	638,701	09	27	DEC 31,1974	20 GPM DOWN DP
5,712	638,701	09	28	DEC 31,1974	
5,729	638,668	09	29	DEC 31.1974	
5.746	638,668	09	30	DEC 31.1974	
5,763	638,734	09	31	DEC 31,1974	
5,779	638,734	09	32	DEC 31,1974	
5,796	638.734	09	33	DEC 31,1974	
5,813	638,734	09	34	DEC 31,1974	
5,830	638,734	09	35	DEC 31,1974	
5,846	638,767	09	36	DEC 31,1974	
5,863	638,767	09	37	DEC 31,1974	OVERFLOW-8GPM
5,880	638,767	09	38	DEC 31,1974	
5,897	638,767	09	39	DEC 31,1974	
5,913	638,767	09	40	DEC 31,1974	
5,930	638,767	09	41	DEC 31,1974	
5,947	638,767	09	42	DEC 31,1974	DECLINE
5,964	638,833	09	43	DEC 31,1974	
5,980	638,833	09	44	DEC 31,1974	
5,997	638,833	09	45	DEC 31,1974	
6,014	638,800	09	46	DEC 31,1974	

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DATE OF JOB
DECEMBER 31 1974

GAUGE/RUN NUMBER
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6.031	638.865	09	47	DEC 31,1974	
6.047	638.898	09	48	DEC 31,1974	
6.064	638.931	09	49	DEC 31,1974	
6.081	639.030	09	50	DEC 31,1974	
6.098	639.030	09	51	DEC 31,1974	
6.114	639.030	09	52	DEC 31,1974	
6.131	639.030	09	53	DEC 31,1974	
6.148	639.030	09	54	DEC 31,1974	
6.165	639.030	09	55	DEC 31,1974	
6.181	639.030	09	56	DEC 31,1974	
6.198	639.030	09	57	DEC 31,1974	
6.215	639.030	09	58	DEC 31,1974	
6.232	639.030	09	59	DEC 31,1974	
6.248	639.030	10	00	DEC 31,1974	
6.265	639.030	10	01	DEC 31,1974	
6.282	638.997	10	02	DEC 31,1974	
6.299	639.030	10	03	DEC 31,1974	
6.316	638.997	10	04	DEC 31,1974	
6.332	638.997	10	05	DEC 31,1974	
6.349	638.997	10	06	DEC 31,1974	
6.366	638.997	10	07	DEC 31,1974	
6.383	638.997	10	08	DEC 31,1974	
6.399	638.997	10	09	DEC 31,1974	
6.416	639.030	10	10	DEC 31,1974	
6.433	639.063	10	11	DEC 31,1974	
6.450	639.095	10	12	DEC 31,1974	
6.466	639.063	10	13	DEC 31,1974	
6.483	639.128	10	14	DEC 31,1974	
6.500	639.128	10	15	DEC 31,1974	
6.517	639.128	10	16	DEC 31,1974	
6.533	639.128	10	17	DEC 31,1974	
6.550	639.128	10	18	DEC 31,1974	END FLOW

392 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31,1974

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT CB SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO.136 WITH 2000LB ELEMENT INSIDE DRILL PIPE

GAUGE DEPTH IS 1989 FT. BELOW BOTTOM GAUGE

PACKER SET AT 1966 FT.

GROUND LEVEL REFERENCE IS 7036FT.

INITIAL HYDROSTATIC IS 671.93 PSI

FINAL HYDROSTATIC IS 667.31 PSI

TEST INTERVAL IS FROM 1966 FT. (PACKER DEPTH) TO 2020 FT. (BOTTOM HOLE)

431 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31,1974

GAUGE/RUN NUMBER
136 DST 32 INITIAL OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	494.201	03	10	DEC 31,1974	INITIAL OPEN
.017	516.546	03	11	DEC 31,1974	
.033	632.295	03	12	DEC 31,1974	
.050	689.197	03	13	DEC 31,1974	END OPEN

4 POINTS REPORTED THIS RUN

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JOB NUMBER                                                              DATE OF JOB
SPG-11210-DD                                                       DECEMBER 31,1974

GAUGE/RUN NUMBER                                                        DATE OF RUN
136   DST 32 SHUTIN

                                  SPERRY-SUN
                    PRECISION SUBSURFACE PRESSURE GAUGE REPORT

     DELTA    PRESSURE                      TIME     DATE               COMMENTS
     TIME      (PSI)                       HR MIN

     0,000    689,197                      03  13 DEC 31,1974   INITIAL CLOSE
      ,016     20,162                      03  14 DEC 31,1974
      ,031     23,304                      03  15 DEC 31,1974
      ,047    487,684                      03  16 DEC 31,1974
      ,063    425,678                      03  17 DEC 31,1974
      ,078    421,395                      03  18 DEC 31,1974
      ,094    412,271                      03  19 DEC 31,1974
      ,110    409,478                      03  20 DEC 31,1974
      ,125    408,128                      03  21 DEC 31,1974
      ,141    407,244                      03  21 DEC 31,1974
      ,157    406,918                      03  22 DEC 31,1974
      ,173    406,732                      03  23 DEC 31,1974
      ,188    406,685                      03  24 DEC 31,1974
      ,204    406,685                      03  25 DEC 31,1974
      ,220    406,825                      03  26 DEC 31,1974
      ,235    407,104                      03  27 DEC 31,1974
      ,251    407,430                      03  28 DEC 31,1974
      ,267    407,803                      03  29 DEC 31,1974
      ,282    408,128                      03  30 DEC 31,1974
      ,298    408,361                      03  31 DEC 31,1974
      ,314    408,547                      03  32 DEC 31,1974
      ,329    408,827                      03  33 DEC 31,1974
      ,345    409,059                      03  34 DEC 31,1974
      ,361    409,339                      03  35 DEC 31,1974
      ,376    409,571                      03  36 DEC 31,1974
      ,392    409,851                      03  37 DEC 31,1974
      ,408    409,990                      03  37 DEC 31,1974
      ,424    410.177                      03  38 DEC 31,1974
      ,439    410,456                      03  39 DEC 31,1974
      ,455    410,642                      03  40 DEC 31,1974
      ,471    410,968                      03  41 DEC 31,1974
      ,486    411,154                      03  42 DEC 31,1974
      ,502    411,387                      03  43 DEC 31,1974
      ,518    411,620                      03  44 DEC 31,1974
      ,533    411,806                      03  45 DEC 31,1974   END SHUT IN
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                        35 POINTS REPORTED THIS RUN

                                  PAGE  3
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JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31,1974

GAUGE/RUN NUMBER
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	411,806	03	45	DEC 31,1974	OPEN TO FLOW
,066	150,628	03	49	DEC 31,1974	
,083	153,348	03	50	DEC 31,1974	
,100	153,536	03	51	DEC 31,1974	
,116	153,629	03	52	DEC 31,1974	
,133	153,864	03	53	DEC 31,1974	
,150	153,770	03	54	DEC 31,1974	
,166	153,958	03	55	DEC 31,1974	
,183	154,520	03	56	DEC 31,1974	
,199	154,520	03	57	DEC 31,1974	
,216	154,755	03	58	DEC 31,1974	
,233	154,802	03	59	DEC 31,1974	
,249	154,989	04	00	DEC 31,1974	
,266	155,224	04	01	DEC 31,1974	
,283	155,224	04	02	DEC 31,1974	
,299	155,458	04	03	DEC 31,1974	
,316	155,505	04	04	DEC 31,1974	
,332	155,693	04	05	DEC 31,1974	
,349	155,740	04	06	DEC 31,1974	
,366	155,740	04	07	DEC 31,1974	
,382	155,787	04	08	DEC 31,1974	
,399	156,021	04	09	DEC 31,1974	
,416	156,068	04	10	DEC 31,1974	
,432	156,256	04	11	DEC 31,1974	
,449	156,303	04	12	DEC 31,1974	
,465	156,303	04	13	DEC 31,1974	
,482	156,537	04	14	DEC 31,1974	
,499	156,584	04	15	DEC 31,1974	
,515	156,725	04	16	DEC 31,1974	
,532	156,772	04	17	DEC 31,1974	
,549	156,772	04	18	DEC 31,1974	
,565	156,818	04	19	DEC 31,1974	
,582	156,912	04	20	DEC 31,1974	
,598	156,912	04	21	DEC 31,1974	
,615	156,959	04	22	DEC 31,1974	
,632	157,053	04	23	DEC 31,1974	
,648	157,053	04	24	DEC 31,1974	
,665	157,100	04	25	DEC 31,1974	
,682	157,100	04	26	DEC 31,1974	
,698	157,100	04	27	DEC 31,1974	

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DATE OF JOB
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GAUGE/RUN NUMBER
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DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
.715	157.147	04	28	DEC 31,1974	
.731	157.194	04	29	DEC 31,1974	
.748	157.240	04	30	DEC 31,1974	
.765	157.147	04	31	DEC 31,1974	
.781	157.334	04	32	DEC 31,1974	
.798	157.334	04	33	DEC 31,1974	
.815	157.522	04	34	DEC 31,1974	
.831	157.569	04	35	DEC 31,1974	
.848	157.334	04	36	DEC 31,1974	
.864	157.663	04	37	DEC 31,1974	
.881	157.569	04	38	DEC 31,1974	
.898	157.663	04	39	DEC 31,1974	
.914	157.709	04	40	DEC 31,1974	
.931	157.897	04	41	DEC 31,1974	
.948	157.944	04	42	DEC 31,1974	
.964	157.991	04	43	DEC 31,1974	
.981	158.038	04	44	DEC 31,1974	
.997	158.085	04	45	DEC 31,1974	
1.014	158.085	04	46	DEC 31,1974	
1.031	158.225	04	47	DEC 31,1974	
1.047	158.272	04	48	DEC 31,1974	
1.064	158.366	04	49	DEC 31,1974	
1.081	158.319	04	50	DEC 31,1974	
1.097	158.366	04	51	DEC 31,1974	
1.114	158.413	04	52	DEC 31,1974	
1.130	158.507	04	53	DEC 31,1974	
1.147	158.554	04	54	DEC 31,1974	
1.164	158.600	04	55	DEC 31,1974	
1.180	158.741	04	56	DEC 31,1974	
1.197	158.741	04	57	DEC 31,1974	
1.214	158.741	04	58	DEC 31,1974	
1.230	158.741	04	59	DEC 31,1974	
1.247	158.788	05	00	DEC 31,1974	
1.263	158.835	05	01	DEC 31,1974	
1.280	158.882	05	02	DEC 31,1974	
1.297	158.976	05	03	DEC 31,1974	
1.313	158.929	05	04	DEC 31,1974	
1.330	158.976	05	05	DEC 31,1974	
1.347	158.929	05	06	DEC 31,1974	
1.363	159.116	05	07	DEC 31,1974	

JOB NUMBER
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DATE OF JOB
DECEMBER 31,1974

GAUGE/RUN NUMBER
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
1,380	159,116	05	08	DEC 31,1974	
1,396	159,116	05	09	DEC 31,1974	
1,413	159,257	05	10	DEC 31,1974	
1,430	159,257	05	11	DEC 31,1974	
1,446	159,257	05	12	DEC 31,1974	
1,463	159,351	05	13	DEC 31,1974	
1,480	159,351	05	14	DEC 31,1974	
1,496	159,304	05	15	DEC 31,1974	
1,513	159,398	05	16	DEC 31,1974	
1,529	159,445	05	17	DEC 31,1974	
1,546	159,445	05	18	DEC 31,1974	
1,563	159,538	05	19	DEC 31,1974	
1,579	159,538	05	20	DEC 31,1974	
1,596	159,492	05	21	DEC 31,1974	
1,613	159,585	05	22	DEC 31,1974	
1,629	159,585	05	23	DEC 31,1974	
1,646	159,679	05	24	DEC 31,1974	
1,662	159,679	05	25	DEC 31,1974	
1,679	159,679	05	26	DEC 31,1974	
1,696	159,632	05	27	DEC 31,1974	
1,712	159,773	05	28	DEC 31,1974	
1,729	159,820	05	29	DEC 31,1974	
1,746	159,867	05	30	DEC 31,1974	
1,762	159,960	05	31	DEC 31,1974	
1,779	159,867	05	32	DEC 31,1974	
1,795	159,867	05	33	DEC 31,1974	
1,812	160,007	05	34	DEC 31,1974	
1,829	159,914	05	35	DEC 31,1974	
1,845	160,101	05	36	DEC 31,1974	
1,862	160,101	05	37	DEC 31,1974	
1,879	160,148	05	38	DEC 31,1974	
1,895	160,007	05	39	DEC 31,1974	
1,912	160,195	05	40	DEC 31,1974	
1,928	160,242	05	41	DEC 31,1974	
1,945	160,336	05	42	DEC 31,1974	
1,962	160,336	05	43	DEC 31,1974	
1,978	160,383	05	44	DEC 31,1974	
1,995	160,336	05	45	DEC 31,1974	
2,012	160,429	05	46	DEC 31,1974	
2,028	160,476	05	47	DEC 31,1974	

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GAUGE/RUN NUMBER
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2.045	160.383	05	48	DEC 31,1974	
2.061	160.476	05	49	DEC 31,1974	
2.078	160.523	05	50	DEC 31,1974	
2.095	160.617	05	51	DEC 31,1974	
2.111	160.617	05	52	DEC 31,1974	
2.128	160.617	05	53	DEC 31,1974	
2.145	160.664	05	54	DEC 31,1974	
2.161	160.711	05	55	DEC 31,1974	
2.178	160.758	05	56	DEC 31,1974	
2.194	160.758	05	57	DEC 31,1974	
2.211	160.805	05	58	DEC 31,1974	
2.228	160.852	05	59	DEC 31,1974	
2.244	160.805	06	00	DEC 31,1974	
2.261	160.852	06	01	DEC 31,1974	
2.278	160.898	06	02	DEC 31,1974	
2.294	160.898	06	03	DEC 31,1974	
2.311	160.945	06	04	DEC 31,1974	
2.327	161.039	06	05	DEC 31,1974	
2.344	161.133	06	06	DEC 31,1974	
2.361	161.086	06	07	DEC 31,1974	
2.377	161.086	06	08	DEC 31,1974	
2.394	161.180	06	09	DEC 31,1974	
2.411	161.133	06	10	DEC 31,1974	
2.427	161.180	06	11	DEC 31,1974	
2.444	161.180	06	12	DEC 31,1974	
2.460	161.227	06	13	DEC 31,1974	
2.477	161.274	06	14	DEC 31,1974	
2.494	161.274	06	15	DEC 31,1974	
2.510	161.320	06	16	DEC 31,1974	
2.527	161.320	06	17	DEC 31,1974	
2.544	161.414	06	18	DEC 31,1974	
2.560	161.508	06	19	DEC 31,1974	
2.577	161.461	06	20	DEC 31,1974	
2.593	161.414	06	21	DEC 31,1974	
2.610	161.508	06	22	DEC 31,1974	
2.627	161.461	06	23	DEC 31,1974	
2.643	161.461	06	24	DEC 31,1974	
2.660	161.555	06	25	DEC 31,1974	
2.677	161.602	06	26	DEC 31,1974	
2.693	161.649	06	27	DEC 31,1974	

JOB NUMBER SPG-11210-DD	DATE OF JOB DECEMBER 31,1974
GAUGE/RUN NUMBER 136 DST-32 FINALFLOW	DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2.710	161.696	06	28	DEC 31,1974	
2.726	161.696	06	29	DEC 31,1974	
2.743	161.743	06	30	DEC 31,1974	
2.760	161.743	06	31	DEC 31,1974	
2.776	161.836	06	32	DEC 31,1974	
2.793	161.836	06	33	DEC 31,1974	
2.810	161.789	06	34	DEC 31,1974	
2.826	161.883	06	35	DEC 31,1974	
2.843	161.883	06	36	DEC 31,1974	
2.859	161.883	06	37	DEC 31,1974	
2.876	161.930	06	38	DEC 31,1974	
2.893	161.883	06	39	DEC 31,1974	
2.909	161.977	06	40	DEC 31,1974	
2.926	161.977	06	41	DEC 31,1974	
2.943	161.977	06	42	DEC 31,1974	
2.959	162.118	06	43	DEC 31,1974	
2.976	162.118	06	44	DEC 31,1974	
2.992	162.071	06	45	DEC 31,1974	
3.009	162.165	06	46	DEC 31,1974	
3.026	162.165	06	47	DEC 31,1974	
3.042	162.165	06	48	DEC 31,1974	
3.059	162.258	06	49	DEC 31,1974	
3.076	162.305	06	50	DEC 31,1974	
3.092	162.305	06	51	DEC 31,1974	
3.109	162.305	06	52	DEC 31,1974	
3.125	162.258	06	53	DEC 31,1974	
3.142	162.399	06	54	DEC 31,1974	
3.159	162.399	06	55	DEC 31,1974	
3.175	162.446	06	56	DEC 31,1974	
3.192	162.399	06	57	DEC 31,1974	
3.209	162.493	06	58	DEC 31,1974	
3.225	162.540	06	59	DEC 31,1974	
3.242	162.540	07	00	DEC 31,1974	
3.258	162.587	07	01	DEC 31,1974	61 GIM ANNULUS
3.275	162.587	07	02	DEC 31,1974	
3.292	162.634	07	02	DEC 31,1974	
3.308	162.634	07	03	DEC 31,1974	
3.325	162.634	07	04	DEC 31,1974	
3.342	162.634	07	05	DEC 31,1974	
3.358	162.681	07	06	DEC 31,1974	

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31,1974

GAUGE/RUN NUMBER
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
3.375	162.727	07	07	DEC 31,1974	
3.391	162.727	07	08	DEC 31,1974	
3.408	162.821	07	09	DEC 31,1974	
3.425	162.868	07	10	DEC 31,1974	
3.441	162.915	07	11	DEC 31,1974	
3.458	162.868	07	12	DEC 31,1974	
3.474	162.915	07	13	DEC 31,1974	
3.491	162.962	07	14	DEC 31,1974	
3.508	163.009	07	15	DEC 31,1974	
3.524	163.009	07	16	DEC 31,1974	
3.541	163.056	07	17	DEC 31,1974	
3.558	163.009	07	18	DEC 31,1974	
3.574	163.103	07	19	DEC 31,1974	
3.591	163.056	07	20	DEC 31,1974	
3.607	163.196	07	21	DEC 31,1974	
3.624	163.196	07	22	DEC 31,1974	
3.641	163.196	07	23	DEC 31,1974	
3.657	163.196	07	24	DEC 31,1974	
3.674	163.243	07	25	DEC 31,1974	
3.691	163.337	07	26	DEC 31,1974	
3.707	163.384	07	27	DEC 31,1974	
3.724	163.337	07	28	DEC 31,1974	
3.740	163.384	07	29	DEC 31,1974	
3.757	163.384	07	30	DEC 31,1974	
3.774	163.290	07	31	DEC 31,1974	
3.790	163.572	07	32	DEC 31,1974	
3.807	163.618	07	33	DEC 31,1974	
3.824	163.618	07	34	DEC 31,1974	
3.840	163.665	07	35	DEC 31,1974	
3.857	163.665	07	36	DEC 31,1974	
3.873	163.665	07	37	DEC 31,1974	
3.890	163.618	07	38	DEC 31,1974	
3.907	163.759	07	39	DEC 31,1974	
3.923	163.759	07	40	DEC 31,1974	
3.940	163.712	07	41	DEC 31,1974	
3.957	163.806	07	42	DEC 31,1974	
3.973	163.900	07	43	DEC 31,1974	
3.990	163.994	07	44	DEC 31,1974	
4.006	163.947	07	45	DEC 31,1974	
4.023	163.994	07	46	DEC 31,1974	

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31,1974

GAUGE/RUN NUMBER
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4.040	164.087	07 47	DEC 31,1974	
4.056	163.994	07 48	DEC 31,1974	
4.073	164.041	07 49	DEC 31,1974	
4.090	164.041	07 50	DEC 31,1974	
4.106	164.087	07 51	DEC 31,1974	
4.123	164.087	07 52	DEC 31,1974	
4.139	164.087	07 53	DEC 31,1974	
4.156	164.134	07 54	DEC 31,1974	
4.173	164.087	07 55	DEC 31,1974	
4.189	164.181	07 56	DEC 31,1974	
4.206	164.181	07 57	DEC 31,1974	
4.223	164.181	07 58	DEC 31,1974	
4.239	164.275	07 59	DEC 31,1974	DECLINE
4.256	164.322	08 00	DEC 31,1974	
4.272	164.322	08 01	DEC 31,1974	
4.289	164.369	08 02	DEC 31,1974	
4.306	164.275	08 03	DEC 31,1974	
4.322	164.369	08 04	DEC 31,1974	
4.339	164.416	08 05	DEC 31,1974	
4.356	164.509	08 06	DEC 31,1974	
4.372	164.416	08 07	DEC 31,1974	
4.389	164.416	08 08	DEC 31,1974	
4.405	164.416	08 09	DEC 31,1974	
4.422	164.463	08 10	DEC 31,1974	
4.439	164.416	08 11	DEC 31,1974	
4.455	164.463	08 12	DEC 31,1974	
4.472	164.509	08 13	DEC 31,1974	
4.489	164.416	08 14	DEC 31,1974	
4.505	164.463	08 15	DEC 31,1974	
4.522	164.509	08 16	DEC 31,1974	
4.538	164.369	08 17	DEC 31,1974	
4.555	164.650	08 18	DEC 31,1974	
4.572	164.556	08 19	DEC 31,1974	
4.588	164.697	08 20	DEC 31,1974	
4.605	164.603	08 21	DEC 31,1974	
4.622	164.603	08 22	DEC 31,1974	
4.638	164.650	08 23	DEC 31,1974	
4.655	164.650	08 24	DEC 31,1974	
4.671	164.650	08 25	DEC 31,1974	
4.688	164.603	08 26	DEC 31,1974	

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31,1974

GAUGE/RUN NUMBER
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4,705	164,744	08	27	DEC 31,1974	
4,721	164,697	08	28	DEC 31,1974	
4,738	164,697	08	29	DEC 31,1974	2 G/M DOWN DP
4,755	164,744	08	30	DEC 31,1974	
4,771	164,791	08	31	DEC 31,1974	
4,788	164,791	08	32	DEC 31,1974	
4.804	164.838	08	33	DEC 31,1974	
4.821	164,744	08	34	DEC 31,1974	
4,838	164,838	08	35	DEC 31,1974	
4,854	164,744	08	36	DEC 31,1974	
4,871	164.932	08	37	DEC 31,1974	
4,888	164,885	08	38	DEC 31,1974	
4,904	164,932	08	39	DEC 31,1974	
4.921	164,978	08	40	DEC 31,1974	
4,937	165,025	08	41	DEC 31,1974	
4,954	165.025	08	42	DEC 31,1974	
4,971	165,072	08	43	DEC 31,1974	
4.987	165,729	08	44	DEC 31,1974	
5,004	172,529	08	45	DEC 31,1974	
5.021	177,734	08	46	DEC 31,1974	
5,037	183,127	08	47	DEC 31,1974	
5,054	188,098	08	48	DEC 31,1974	
5,070	193,070	08	49	DEC 31,1974	5 G/M DOWN DP
5,087	197,994	08	50	DEC 31,1974	
5,104	202,918	08	51	DEC 31,1974	
5,120	208,405	08	52	DEC 31,1974	
5,137	215.267	08	53	DEC 31,1974	
5,154	222.529	08	54	DEC 31,1974	
5,170	229,744	08	55	DEC 31,1974	
5,187	236.913	08	56	DEC 31,1974	
5,203	244.315	08	57	DEC 31,1974	
5,220	251.623	08	58	DEC 31,1974	
5,237	259,072	08	59	DEC 31,1974	
5,253	266,008	09	00	DEC 31,1974	
5,270	273.596	09	01	DEC 31,1974	
5,287	280,439	09	02	DEC 31,1974	
5,303	287,421	09	03	DEC 31,1974	
5.320	294,264	09	04	DEC 31,1974	
5,336	301,480	09	05	DEC 31,1974	
5,353	308,695	09	06	DEC 31,1974	

JOB NUMBER
SPG-11210-DD

DATE OF JOB
DECEMBER 31,1974

GAUGE/RUN NUMBER
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
5,370	315,957	09	07	DEC 31,1974	
5,386	323,498	09	08	DEC 31,1974	
5,403	330,714	09	09	DEC 31,1974	
5,420	337,976	09	10	DEC 31,1974	11 G/M DOWN DP
5,436	345,377	09	11	DEC 31,1974	
5,453	353,012	09	12	DEC 31,1974	
5,469	362,043	09	13	DEC 31,1974	
5.486	372,982	09	14	DEC 31,1974	
5,503	388,996	09	15	DEC 31,1974	
5,519	405,522	09	16	DEC 31,1974	
5.536	421,908	09	17	DEC 31,1974	
5,553	437.595	09	18	DEC 31,1974	
5,569	453,330	09	19	DEC 31,1974	
5,586	471.997	09	20	DEC 31,1974	
5,602	487,964	09	21	DEC 31,1974	
5,619	503.325	09	22	DEC 31,1974	
5,636	521,248	09	23	DEC 31,1974	
5,652	536.516	09	24	DEC 31,1974	
5,669	552,344	09	25	DEC 31,1974	
5,686	567,659	09	26	DEC 31,1974	
5,702	583,952	09	27	DEC 31,1974	
5,719	594,938	09	28	DEC 31,1974	
5,735	607,507	09	29	DEC 31,1974	
5,752	622,712	09	30	DEC 31,1974	20 G/M DOWN DP
5,769	639,101	09	31	DEC 31,1974	
5,785	655,584	09	32	DEC 31,1974	
5,802	675,214	09	33	DEC 31,1974	
5,819	693,456	09	34	DEC 31,1974	
5,835	723,689	09	35	DEC 31,1974	
5,852	743,042	09	36	DEC 31,1974	
5,868	721,652	09	37	DEC 31,1974	
5,885	750.126	09	38	DEC 31,1974	
5,902	818,833	09	39	DEC 31,1974	
5,918	832,815	09	40	DEC 31,1974	OVER FLOW
5,935	851,519	09	41	DEC 31,1974	
5,952	866,705	09	42	DEC 31,1974	
5,968	867,076	09	43	DEC 31,1974	
5,985	868,048	09	44	DEC 31,1974	
6,001	868,141	09	45	DEC 31,1974	START DECLINE
6,018	866,705	09	46	DEC 31,1974	

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JOB NUMBER                                                   DATE OF JOB
SPG-11210-DD                                           DECEMBER 31,1974

GAUGE/RUN NUMBER                                             DATE OF RUN
136    DST-32 FINALFLOW

                          SPERRY-SUN
            PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                 TIME      DATE              COMMENTS
    TIME      (PSI)                  HR MIN

    6.035     866.891                09   47 DEC 31,1974
    6.051     866.567                09   48 DEC 31,1974
    6.068     866.011                09   49 DEC 31,1974
    6.085     865.687                09   50 DEC 31,1974
    6.101     865.270                09   51 DEC 31,1974
    6.118     865.178                09   52 DEC 31,1974
    6.134     865.039                09   53 DEC 31,1974
    6.151     864.946                09   54 DEC 31,1974
    6.168     864.715                09   55 DEC 31,1974
    6.184     864.761                09   56 DEC 31,1974
    6.201     864.483                09   57 DEC 31,1974
    6.218     864.344                09   58 DEC 31,1974
    6.234     864.159                09   59 DEC 31,1974
    6.251     863.974                10   00 DEC 31,1974
    6.267     863.881                10   01 DEC 31,1974
    6.284     863.696                10   02 DEC 31,1974
    6.301     863.418                10   03 DEC 31,1974
    6.317     863.372                10   04 DEC 31,1974
    6.334     863.140                10   05 DEC 31,1974
    6.351     863.187                10   06 DEC 31,1974
    6.367     862.863                10   07 DEC 31,1974
    6.384     862.724                10   08 DEC 31,1974
    6.400     862.492                10   09 DEC 31,1974
    6.417     862.446                10   10 DEC 31,1974
    6.434     862.353                10   11 DEC 31,1974
    6.450     862.122                10   12 DEC 31,1974
    6.467     862.076                10   13 DEC 31,1974
    6.484     861.844                10   14 DEC 31,1974
    6.500     861.798                10   15 DEC 31,1974
    6.517     861.520                10   16 DEC 31,1974
    6.533     861.427                10   17 DEC 31,1974
    6.550     861.520                10   18 DEC 31,1974   END FLOW
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                 392 POINTS REPORTED THIS RUN
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JOHNSTON

Schlumberger

technical report

II B-1443

F.R. #09085 C

COMPANY ATLANTIC-RICHFIELD COMPANY **WELL** FEDERAL S. G. #17 **TEST NO.** 33 **COUNTY** RIO BLANCO **STATE** COLORADO

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	1054	-	-
CLOSED FOR INITIAL SHUT-IN	1118	-	-
RE-OPENED TOOL	1150	-	-
CLOSED TOOL	1415	-	-
PULLED PACKER LOOSE	1417	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER - FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested GREEN RIVER
Elevation 7036 Ft.
Net Productive Interval 52 Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 2070 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 297' I.D. -
Drill Pipe Length 1687' I.D. -
Packer Depth(s) 2014' & 2018' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure ______ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas ______
cc. Oil ______
cc. Water ______
cc. Mud ______
Tot. Liquid cc. ______
Gravity ______ °API @ ______ °F.
Gas/Oil Ratio ______ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY
Field SORGHUM GULCH
Well FEDERAL S. G. #17
Location 436' FWL & 181' FSL SEC. 16-35-96W
Test Interval 2018' TO 2070'
Test # 33
Date 1-2-75

II B-1444

County RIO BLANCO
State COLORADO
Technician BURNS (VERNAL)
Test Approved By MR. ALLEN D. WALTER

Field Report No. 09085 C
No. Reports Requested 14 (13x)

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT # 4633 N PRESSURE (P.S.I.G.)	INSTRUMENT# 4097 N PRESSURE (P.S.I.G.)
INITIAL HYDROSTATIC	1	-	-	650.3	658.2
PACKER SEAT	2	-	-	664.7	672.2
TOOL OPENED	3	1054	0	32.7	36.1
CLOSED FOR INITIAL SHUT-IN	4	1056	2	40.6	43.1
			4	731.6	489.3
			6	740.7	783.4
			8	776.1	784.8
			10	780.1	789.1
			12	782.7	791.9
			14	785.3	793.3
			16	786.6	794.7
			18	786.6	794.7
			20	786.6	794.7
			22	787.9	794.7
			24	789.3	797.5
			26	787.9	796.1
			28	786.3	794.7
			30	786.3	794.7
			32	785.3	793.3
			34	785.3	791.9
			36	782.7	789.1
			38	780.1	787.6
INITIAL SHUT-IN	5	1133	39	778.8	787.6
TOOL RE-OPENED - INITIAL FLOW	6	1134	40	64.2	61.4
			42	64.2	61.4
			44	64.2	61.4
			46	64.2	61.4
			48	64.2	61.4
			50	64.2	61.4
			52	64.2	61.4
			54	64.2	61.4
			56	64.2	61.4
			58	64.2	61.4
			60	64.2	61.4
			62	64.2	61.4
			64	64.2	61.4
			66	62.8	60.0
			68	62.8	61.4
			70	62.8	61.4
			72	62.8	61.4
			74	62.8	61.4
			76	62.8	61.4
			78	62.8	61.4
			80	61.5	60.0
			82	61.5	60.0
			84	61.5	60.0
			86	61.5	60.0
			88	61.5	60.0
			90	61.5	60.0
			92	60.2	60.0
			94	60.2	60.0
			96	60.2	61.4
			98	60.2	61.4

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT# 4633 N PRESSURE (P.S.I.G.)	INSTRUMENT# 4097 N PRESSURE (P.S.I.G.)
			100	60.2	61.4
			102	60.2	61.4
			104	60.2	61.4
			106	60.2	61.4
			108	60.2	61.4
			110	60.2	61.4
			112	60.2	61.4
			114	60.2	61.4
			116	60.2	61.4
			118	60.2	61.4
			120	60.2	61.4
			122	60.2	61.4
			124	60.2	61.4
			126	60.2	61.4
			128	60.2	61.4
			130	60.2	61.4
			132	60.2	61.4
			134	60.2	61.4
			136	60.2	61.4
			138	60.2	61.4
			140	60.2	61.4
			142	60.2	61.4
			144	60.2	61.4
			146	60.2	61.4
			148	60.2	61.4
			150	60.2	61.4
			152	60.2	61.4
			154	60.2	61.4
			156	60.2	61.4
			158	60.2	61.4
			160	60.2	61.4
			162	60.2	61.4
			164	60.2	61.4
			166	60.2	61.4
			168	60.2	61.4
			170	60.2	61.4
			172	60.2	61.4
			174	60.2	61.4
			176	60.2	61.4
			178	60.2	61.4
			180	60.2	61.4
			182	60.2	61.4
			184	60.2	61.4
			186	60.2	61.4
			188	60.2	61.4
			190	60.2	61.4
			192	60.2	61.4
			194	60.2	61.4
			196	60.2	61.4
			198	60.2	61.4
			200	60.2	61.4
CLOSED TOOL-PULLED PACKER LOOSE	7	1415	201	60.2	61.4
FINAL HYDROSTATIC	8	-	-	645.0	652.5

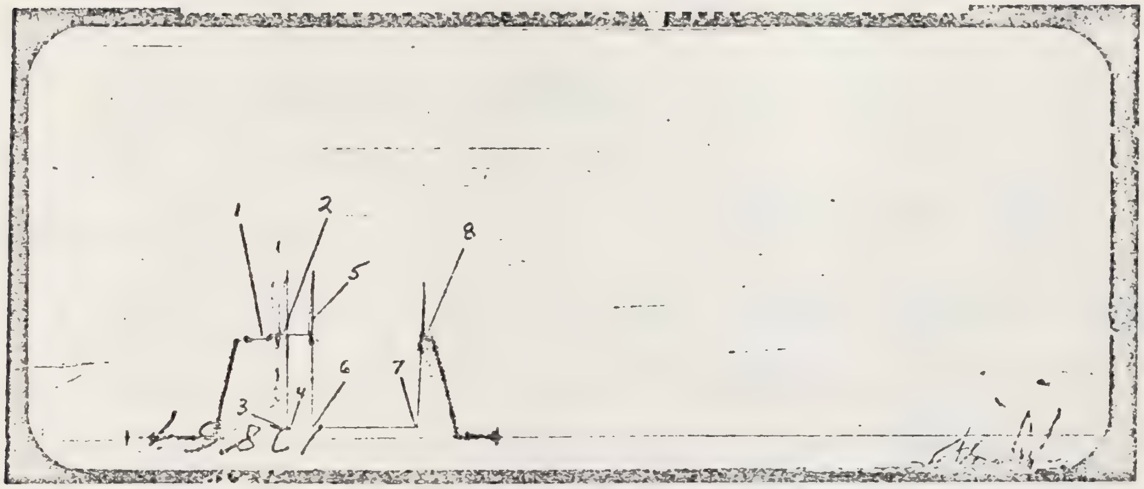
II B-1446

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT # 4633 N PRESSURE(P.S.I.G.)	INSTRUMENT # 4097 N PRESSURE(P.S.I.G.)
CAPACITY (P.S.I.G.)				2650	2800
INSTRUMENT DEPTH				1995'	2020'
INSTRUMENT OPENING				INSIDE	OUTSIDE

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF THE CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

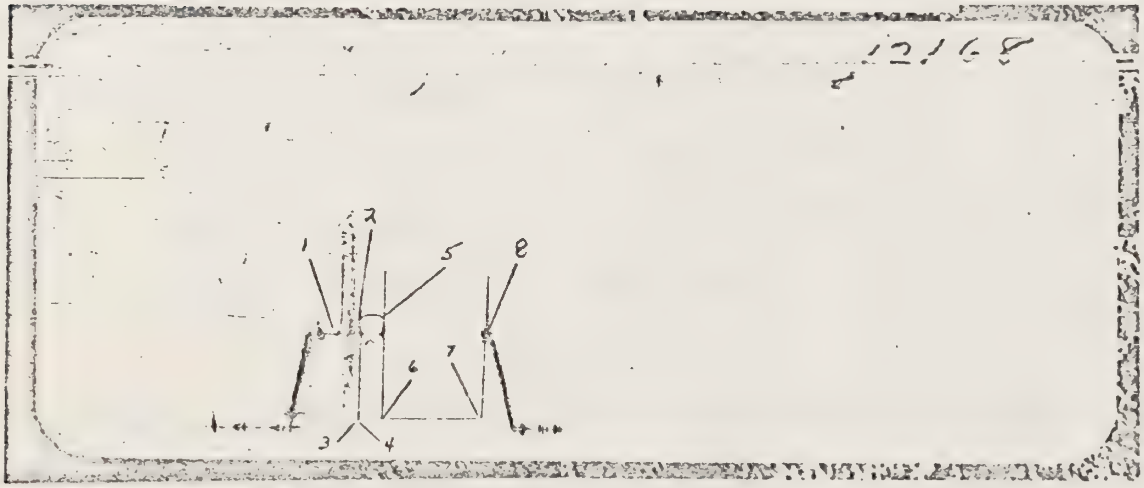
JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09085 C	4633 N
CAPACITY	**REPORTS REQUESTED**
2650#	14+



JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09085 C	4097 N
CAPACITY	**REPORTS REQUESTED**
2800#	14+



PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SPG 11210EE Date 1/2/75 Run DST 33 Office Casper, Wyoming

Customer Arco Et AL Location Sorghum Gulch

State Colorado County/Parish Rio Blanco

Well Sorghum Gulch No. 17 Field Federal Tract Cb

USE MILITARY TIME FOR ALL TIMES

	Time	Date		Time	Date	Time Charged
Arrive: Well/~~Dock~~	1. 0530	1/2/75	2.			
Depart: Well/~~Dock~~	1. 1800	1/2/75	2.			12 1/2 Hrs.
Gauge Start in Hole	1. 0800	1/2/75	2.			
Gauge Out of Hole	1. 1706	1/2/75	2.			9 Hrs.

No. Trips 1 (one) Miles 90 Total Mileage 90

Top Gauge # 189 Element # 35994 Range 1400 Time Mode 1 min.

Btm.Gauge # 136 Element # 35336 Range 2000 Time Mode 1 min.

Type Tool DST Test Depth 2018' - 2070' Zero Point Ground Level

Packer Depth 2018' Tail Pipe Depth 2070' Top Gauge Depth 1977'

Bottom Hole Temp. 99° F Atmos. Temp. 10° F Bottom Gauge Depth 2029'

TIME INFORMATION	Time	Date	PRESSURE INFORMATION	INSIDE	OUTSIDE
On Bottom	1049	1/2/75	Initial Hydrostatic Mud	65	70
Packer Set	1051	1/2/75	Initial Draw Down		
Initial Open	1054	1/2/75	Initial Build-Up	520	700
Initial Shut-In	1118	1/2/75	Final Flow		
Start Flow	1150	1/2/75	Final Build-Up		
Final Shut-In	1415	1/2/75	Final Hydrostatic Mud		
Packer Unseated	1417	1/2/75	Mud Weight		

TIME OF SURFACE NULLS

Top Gauge 0833 0834 0835 Bottom Gauge 0812 0813 0814

Remarks Test Cut short because of no recovery.

SP-423

II B-1449

Mike Elmore
Operator

JOB NUMBER	DATE OF JOB
8PG-11210-EE	JANUARY 02 1975

SPERRY-SUN

PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT CB SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO.189 WITH 1400 LB, ELEMENT

GAUGE DEPTH IS 1977 FT, OUTSIDE DRILL PIPE

ABOVE PACKER SET AT 2018 FEET

GROUND LEVEL REFERENCE IS 7036 FEET

INITIAL HYDROSTATIC IS 638,70 PSI

FINAL HYDROTATIC IS 642,05 PSI

TEST INTERVAL IS FROM SURFACE TO

2018 FEET (PACKER DEPTH)

202 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 02 1975

GAUGE/RUN NUMBER
189 DST 33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	649.874	10	54	JAN 02,1975	INITIAL OPEN
.017	651.288	10	55	JAN 02,1975	
.033	651.057	10	56	JAN 02,1975	HAD PROBLEMS
.050	651.156	10	57	JAN 02,1975	WITH CORE STUB
.067	651.123	10	58	JAN 02,1975	DURING THIS
.083	651.156	10	59	JAN 02,1975	INTERVAL
.100	651.583	11	00	JAN 02,1975	
.117	651.353	11	01	JAN 02,1975	
.133	651.288	11	02	JAN 02,1975	
.150	652.273	11	03	JAN 02,1975	
.167	651.649	11	04	JAN 02,1975	
.183	651.649	11	05	JAN 02,1975	
.200	651.518	11	06	JAN 02,1975	
.217	651.583	11	07	JAN 02,1975	
.233	651.616	11	08	JAN 02,1975	
.250	651.715	11	09	JAN 02,1975	
.267	651.616	11	10	JAN 02,1975	
.283	651.649	11	11	JAN 02,1975	
.300	651.780	11	12	JAN 02,1975	
.317	650.762	11	13	JAN 02,1975	
.333	652.043	11	14	JAN 02,1975	
.350	651.945	11	15	JAN 02,1975	
.367	652.372	11	16	JAN 02,1975	
.383	662.067	11	17	JAN 02,1975	
.400	651.583	11	18	JAN 02,1975	END OPEN

25 POINTS REPORTED THIS RUN

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JOB NUMBER                                                                      DATE OF JOB
SPG-11210-EE                                                                JANUARY 02 1975

GAUGE/RUN NUMBER                                                                DATE OF RUN
189   DST 33

                                          SPERRY-SUN
                              PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA     PRESSURE                             TIME      DATE                  COMMENTS
    TIME       (PSI)                              HR MIN

    0.000     651.583                             11   18 JAN 02,1975    INITIAL SHUTIN
     .017     651.780                             11   19 JAN 02,1975
     .033     651.978                             11   20 JAN 02,1975
     .050     652.109                             11   21 JAN 02,1975
     .067     652.241                             11   22 JAN 02,1975
     .083     652.273                             11   23 JAN 02,1975
     .100     652.273                             11   24 JAN 02,1975
     .117     652.372                             11   25 JAN 02,1975
     .133     652.438                             11   26 JAN 02,1975
     .150     652.438                             11   27 JAN 02,1975
     .167     652.536                             11   28 JAN 02,1975
     .183     652.602                             11   29 JAN 02,1975
     .200     652.602                             11   30 JAN 02,1975
     .217     652.569                             11   31 JAN 02,1975
     .233     652.668                             11   32 JAN 02,1975
     .250     652.734                             11   33 JAN 02,1975
     .267     652.668                             11   34 JAN 02,1975
     .283     652.701                             11   35 JAN 02,1975
     .300     652.799                             11   36 JAN 02,1975
     .317     652.734                             11   37 JAN 02,1975
     .333     652.865                             11   38 JAN 02,1975
     .350     652.832                             11   39 JAN 02,1975
     .367     652.766                             11   40 JAN 02,1975
     .383     652.898                             11   41 JAN 02,1975
     .400     652.865                             11   42 JAN 02,1975
     .417     652.931                             11   43 JAN 02,1975
     .433     652.931                             11   44 JAN 02,1975
     .450     652.931                             11   45 JAN 02,1975
     .467     653.062                             11   46 JAN 02,1975
     .483     653.259                             11   47 JAN 02,1975
     .500     654.508                             11   48 JAN 02,1975    END SHUT IN
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                              31 POINTS REPORTED THIS RUN

                                        PAGE  3
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JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 02 1975

GAUGE/RUN NUMBER
189 DST33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	654.508	11	50	JAN 02,1975	START FLOW
.017	652.569	11	51	JAN 02,1975	
.033	652.635	11	52	JAN 02,1975	
.050	652.832	11	53	JAN 02,1975	
.067	652.832	11	54	JAN 02,1975	
.083	652.799	11	55	JAN 02,1975	
.100	652.865	11	56	JAN 02,1975	
.117	652.898	11	57	JAN 02,1975	
.133	652.931	11	58	JAN 02,1975	
.150	652.898	11	59	JAN 02,1975	
.167	652.931	12	00	JAN 02,1975	
.183	653.029	12	01	JAN 02,1975	
.200	652.964	12	02	JAN 02,1975	
.217	653.062	12	03	JAN 02,1975	
.233	653.062	12	04	JAN 02,1975	
.250	653.095	12	05	JAN 02,1975	
.267	653.095	12	06	JAN 02,1975	
.283	653.062	12	07	JAN 02,1975	
.300	653.292	12	08	JAN 02,1975	
.317	653.095	12	09	JAN 02,1975	
.333	653.194	12	10	JAN 02,1975	
.350	653.161	12	11	JAN 02,1975	
.367	653.259	12	12	JAN 02,1975	
.383	653.259	12	13	JAN 02,1975	
.400	653.259	12	14	JAN 02,1975	
.417	653.292	12	15	JAN 02,1975	
.433	653.292	12	16	JAN 02,1975	
.450	653.325	12	17	JAN 02,1975	
.467	653.358	12	18	JAN 02,1975	
.483	653.391	12	19	JAN 02,1975	
.500	653.555	12	20	JAN 02,1975	
.517	653.424	12	21	JAN 02,1975	
.533	653.456	12	22	JAN 02,1975	
.550	653.424	12	23	JAN 02,1975	
.567	653.456	12	24	JAN 02,1975	
.583	653.456	12	25	JAN 02,1975	
.600	653.522	12	26	JAN 02,1975	
.617	653.555	12	27	JAN 02,1975	
.633	653.489	12	28	JAN 02,1975	
.650	653.588	12	29	JAN 02,1975	

JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 02 1975

GAUGE/RUN NUMBER
189 DST33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
.667	653.588	12	30	JAN 02,1975	
.683	653.588	12	31	JAN 02,1975	
.700	653.654	12	32	JAN 02,1975	
.717	653.621	12	33	JAN 02,1975	
.733	653.588	12	34	JAN 02,1975	
.750	653.687	12	35	JAN 02,1975	
.767	653.687	12	36	JAN 02,1975	
.783	653.752	12	37	JAN 02,1975	
.800	653.785	12	38	JAN 02,1975	
.817	653.719	12	39	JAN 02,1975	
.833	653.719	12	40	JAN 02,1975	
.850	653.818	12	41	JAN 02,1975	
.867	653.818	12	42	JAN 02,1975	
.883	653.949	12	43	JAN 02,1975	
.900	653.851	12	44	JAN 02,1975	
.917	653.818	12	45	JAN 02,1975	
.933	653.851	12	46	JAN 02,1975	
.950	653.949	12	47	JAN 02,1975	
.967	653.917	12	48	JAN 02,1975	
.983	653.917	12	49	JAN 02,1975	
1.000	653.917	12	50	JAN 02,1975	
1.017	653.949	12	51	JAN 02,1975	
1.033	654.081	12	52	JAN 02,1975	
1.050	654.114	12	53	JAN 02,1975	
1.067	653.982	12	54	JAN 02,1975	
1.083	654.147	12	55	JAN 02,1975	
1.100	654.179	12	56	JAN 02,1975	
1.117	654.179	12	57	JAN 02,1975	
1.133	654.245	12	58	JAN 02,1975	
1.150	654.081	12	59	JAN 02,1975	
1.167	654.147	13	00	JAN 02,1975	
1.183	654.212	13	01	JAN 02,1975	
1.200	654.344	13	02	JAN 02,1975	
1.217	654.344	13	03	JAN 02,1975	
1.233	654.114	13	04	JAN 02,1975	
1.250	654.147	13	05	JAN 02,1975	
1.267	654.114	13	06	JAN 02,1975	
1.283	654.179	13	07	JAN 02,1975	
1.300	654.278	13	08	JAN 02,1975	
1.317	654.278	13	09	JAN 02,1975	

JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 02 1975

GAUGE/RUN NUMBER
189 DST33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,333	654,278	13	10	JAN 02,1975	
1,350	654,311	13	11	JAN 02,1975	
1,367	654,442	13	12	JAN 02,1975	
1,383	654,344	13	13	JAN 02,1975	
1,400	654,278	13	14	JAN 02,1975	
1,417	654,278	13	15	JAN 02,1975	
1,433	654,278	13	16	JAN 02,1975	
1,450	654,344	13	17	JAN 02,1975	
1,467	654,344	13	18	JAN 02,1975	
1,483	654,442	13	19	JAN 02,1975	
1,500	654,410	13	20	JAN 02,1975	
1,517	654.344	13	21	JAN 02,1975	
1,533	654,442	13	22	JAN 02,1975	
1.550	654.475	13	23	JAN 02,1975	
1.567	654.442	13	24	JAN 02,1975	
1,583	654,442	13	25	JAN 02,1975	
1,600	654.475	13	26	JAN 02,1975	
1.617	654,508	13	27	JAN 02,1975	
1,633	654,541	13	28	JAN 02,1975	
1,650	654,508	13	29	JAN 02,1975	
1,667	654,508	13	30	JAN 02,1975	
1,683	654,508	13	31	JAN 02,1975	
1,700	654,574	13	32	JAN 02,1975	
1,717	654,607	13	33	JAN 02,1975	
1,733	654,574	13	34	JAN 02,1975	
1,750	654,574	13	35	JAN 02,1975	
1,767	654,640	13	36	JAN 02,1975	
1,783	654,640	13	37	JAN 02,1975	
1,800	654.607	13	38	JAN 02,1975	
1,817	654,640	13	39	JAN 02,1975	
1,833	654,837	13	40	JAN 02,1975	
1,850	654,902	13	41	JAN 02,1975	
1,867	654,771	13	42	JAN 02,1975	
1,883	654,870	13	43	JAN 02,1975	
1,900	654,837	13	44	JAN 02,1975	
1,917	654,902	13	45	JAN 02,1975	
1,933	654,968	13	46	JAN 02,1975	
1,950	654,935	13	47	JAN 02,1975	
1,967	655,100	13	48	JAN 02,1975	
1,983	654,935	13	49	JAN 02,1975	

JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 02 1975

GAUGE/RUN NUMBER
189 DST33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,000	654,968	13	50	JAN 02,1975	
2,017	654,837	13	51	JAN 02,1975	
2,033	654,804	13	52	JAN 02,1975	
2,050	654,804	13	53	JAN 02,1975	
2,067	654,771	13	54	JAN 02,1975	
2,083	654,870	13	55	JAN 02,1975	
2,100	654,837	13	56	JAN 02,1975	
2,117	654,870	13	57	JAN 02,1975	
2,133	654,902	13	58	JAN 02,1975	
2,150	654,870	13	59	JAN 02,1975	
2,167	654.870	14	00	JAN 02,1975	
2.183	654,902	14	01	JAN 02,1975	
2,200	654.935	14	02	JAN 02,1975	
2,217	654.935	14	03	JAN 02,1975	
2,233	655,001	14	04	JAN 02,1975	
2.250	654,968	14	05	JAN 02,1975	
2.267	654,968	14	06	JAN 02,1975	
2.283	655,001	14	07	JAN 02,1975	
2,300	655,297	14	08	JAN 02,1975	
2.317	655.297	14	09	JAN 02,1975	
2,333	655,198	14	10	JAN 02,1975	
2,350	655,067	14	11	JAN 02,1975	
2,367	655,100	14	12	JAN 02,1975	
2.383	655,100	14	13	JAN 02,1975	
2.400	655,100	14	14	JAN 02,1975	
2,417	655,100	14	15	JAN 02,1975	END FLOW

146 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 2, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT CB SORGHUM
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 136 WITH 2000 LB. ELEMENT

GAUGE DEPTH IS 2029 FT. INSIDE DRILL PIPE

BELOW PACKER-SET AT 2018 FEET

GROUND LEVEL REFERENCE IS 7036 FEET

INITIAL HYDROSTATIC IS 685.37 PSI

FINAL HYDROSTATIC IS 655.60 PSI

TEST INTERVAL IS FROM 2018 FT. TO 2070 FT.

184 POINTS REPORTED THIS JOB

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JOB NUMBER                                                        DATE OF JOB
SPG-11210-EE                                                 JANUARY 2, 1975

GAUGE/RUN NUMBER                                                  DATE OF RUN
136   DST 33

                                 SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT

     DELTA    PRESSURE                    TIME     DATE            COMMENTS
     TIME      (PSI)                     HR MIN

     0.000      70.242                   10  54 JAN 02,1975   INITIAL OPEN
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II B-1458

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                         1 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 2, 1975

GAUGE/RUN NUMBER
136 DST33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	79,708	11	18	JAN 02,1975	INITIAL CLOSE
,017	52,999	11	19	JAN 02,1975	
,033	83,152	11	20	JAN 02,1975	
,050	105,254	11	21	JAN 02,1975	
,067	107,162	11	22	JAN 02,1975	
,083	109,302	11	23	JAN 02,1975	
,100	111,489	11	24	JAN 02,1975	
,117	112,885	11	25	JAN 02,1975	
,133	114,235	11	26	JAN 02,1975	
,150	115,212	11	27	JAN 02,1975	
,167	116,096	11	28	JAN 02,1975	
,183	116,468	11	29	JAN 02,1975	
,200	116,468	11	30	JAN 02,1975	
,217	116,840	11	31	JAN 02,1975	
,233	116,654	11	32	JAN 02,1975	
,250	116,840	11	33	JAN 02,1975	
,267	117,957	11	34	JAN 02,1975	
,283	117,771	11	35	JAN 02,1975	
,300	118,608	11	36	JAN 02,1975	
,317	118,097	11	37	JAN 02,1975	
,333	116,980	11	38	JAN 02,1975	
,350	116,049	11	39	JAN 02,1975	
,367	115,724	11	40	JAN 02,1975	
,383	115,724	11	41	JAN 02,1975	
,400	115,724	11	42	JAN 02,1975	
,417	115,165	11	43	JAN 02,1975	
,433	114,560	11	44	JAN 02,1975	
,450	113,443	11	45	JAN 02,1975	
,467	112,187	11	46	JAN 02,1975	
,483	111,070	11	47	JAN 02,1975	
,500	109,674	11	48	JAN 02,1975	
,517	108,558	11	49	JAN 02,1975	END SHUT-IN

32 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 2, 1975

GAUGE/RUN NUMBER
136 DST 33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	121,261	11	50	JAN 02,1975	FINAL FLOW
,016	34,062	11	51	JAN 02,1975	
,032	84,641	11	52	JAN 02,1975	
,048	85,339	11	53	JAN 02,1975	
,064	111,164	11	54	JAN 02,1975	
,081	17,866	11	55	JAN 02,1975	
,097	15,288	11	56	JAN 02,1975	
,113	14,397	11	57	JAN 02,1975	
,129	14,397	11	58	JAN 02,1975	
,145	14,163	11	59	JAN 02,1975	
,161	14,397	12	00	JAN 02,1975	
,177	13,741	12	01	JAN 02,1975	
,193	14,116	12	02	JAN 02,1975	
,209	13,975	12	03	JAN 02,1975	
,226	13,600	12	04	JAN 02,1975	
,242	13,600	12	04	JAN 02,1975	
,258	13,694	12	05	JAN 02,1975	
,274	13,928	12	06	JAN 02,1975	
,290	13,881	12	07	JAN 02,1975	
,306	13,319	12	08	JAN 02,1975	
,322	13,413	12	09	JAN 02,1975	
,338	13,647	12	10	JAN 02,1975	
,354	13,741	12	11	JAN 02,1975	
,371	13,085	12	12	JAN 02,1975	
,387	13,835	12	13	JAN 02,1975	
,403	13,975	12	14	JAN 02,1975	
,419	13,741	12	15	JAN 02,1975	
,435	13,881	12	16	JAN 02,1975	
,451	14,022	12	17	JAN 02,1975	
,467	13,413	12	18	JAN 02,1975	
,483	13,038	12	19	JAN 02,1975	
,499	13,835	12	20	JAN 02,1975	
,516	13,553	12	21	JAN 02,1975	
,532	13,647	12	22	JAN 02,1975	
,548	13,319	12	23	JAN 02,1975	
,564	13,038	12	24	JAN 02,1975	
,580	13,225	12	25	JAN 02,1975	
,596	13,131	12	26	JAN 02,1975	
,612	13,413	12	27	JAN 02,1975	
,628	13,085	12	28	JAN 02,1975	

JOB NUMBER
8PG-11210-EE

DATE OF JOB
JANUARY 2, 1975

GAUGE/RUN NUMBER
136 DST 33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
,644	12,850	12	29	JAN 02,1975	
,661	12,944	12	30	JAN 02,1975	
,677	12,944	12	31	JAN 02,1975	
,693	13,085	12	32	JAN 02,1975	
,709	12,803	12	33	JAN 02,1975	
,725	12,616	12	33	JAN 02,1975	
,741	13,038	12	34	JAN 02,1975	
,757	12,991	12	35	JAN 02,1975	
,773	13,038	12	36	JAN 02,1975	
,789	13,178	12	37	JAN 02,1975	
,806	13,553	12	38	JAN 02,1975	
,822	13,272	12	39	JAN 02,1975	
,838	13,506	12	40	JAN 02,1975	
,854	13,694	12	41	JAN 02,1975	
,870	13,553	12	42	JAN 02,1975	
,886	13,928	12	43	JAN 02,1975	
,902	14,069	12	44	JAN 02,1975	
,918	14,116	12	45	JAN 02,1975	
,934	14,256	12	46	JAN 02,1975	
,951	14,303	12	47	JAN 02,1975	
,967	13,975	12	48	JAN 02,1975	
,983	14,350	12	49	JAN 02,1975	
,999	14,303	12	50	JAN 02,1975	
1,015	14,210	12	51	JAN 02,1975	
1,031	14,210	12	52	JAN 02,1975	
1,047	14,163	12	53	JAN 02,1975	
1,063	13,975	12	54	JAN 02,1975	
1,079	14,163	12	55	JAN 02,1975	
1,096	14,069	12	56	JAN 02,1975	
1,112	14,163	12	57	JAN 02,1975	
1,128	14,210	12	58	JAN 02,1975	
1,144	14,210	12	59	JAN 02,1975	
1,160	14,256	13	00	JAN 02,1975	
1,176	14,303	13	01	JAN 02,1975	
1,192	14,163	13	02	JAN 02,1975	
1,208	14,303	13	02	JAN 02,1975	
1,224	14,210	13	03	JAN 02,1975	
1,241	14,256	13	04	JAN 02,1975	
1,257	14,303	13	05	JAN 02,1975	
1,273	14,303	13	06	JAN 02,1975	

JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 2, 1975

GAUGE/RUN NUMBER
136 DST 33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,289	14,303	13	07	JAN 02,1975	
1,305	14,303	13	08	JAN 02,1975	
1,321	14,256	13	09	JAN 02,1975	
1,337	14,116	13	10	JAN 02,1975	
1,353	14,350	13	11	JAN 02,1975	
1,369	14,163	13	12	JAN 02,1975	
1,386	14,303	13	13	JAN 02,1975	
1,402	14,350	13	14	JAN 02,1975	
1,418	14,256	13	15	JAN 02,1975	
1,434	14,303	13	16	JAN 02,1975	
1,450	14,491	13	17	JAN 02,1975	
1,466	14,397	13	18	JAN 02,1975	
1,482	14,350	13	19	JAN 02,1975	
1,498	14,350	13	20	JAN 02,1975	
1,514	14,303	13	21	JAN 02,1975	
1,531	14,350	13	22	JAN 02,1975	
1,547	14,303	13	23	JAN 02,1975	
1,563	14,350	13	24	JAN 02,1975	
1,579	14,350	13	25	JAN 02,1975	
1,595	14,350	13	26	JAN 02,1975	
1,611	14,538	13	27	JAN 02,1975	
1,627	14,444	13	28	JAN 02,1975	
1,643	14,491	13	29	JAN 02,1975	
1,659	14,444	13	30	JAN 02,1975	
1,676	14,491	13	31	JAN 02,1975	
1,692	14,491	13	31	JAN 02,1975	
1,708	14,397	13	32	JAN 02,1975	
1,724	14,538	13	33	JAN 02,1975	
1,740	14,538	13	34	JAN 02,1975	
1,756	14,491	13	35	JAN 02,1975	
1,772	14,491	13	36	JAN 02,1975	
1,788	14,491	13	37	JAN 02,1975	
1,804	14,491	13	38	JAN 02,1975	
1,821	14,397	13	39	JAN 02,1975	
1,837	14,538	13	40	JAN 02,1975	
1,853	14,538	13	41	JAN 02,1975	
1,869	14,585	13	42	JAN 02,1975	
1,885	14,538	13	43	JAN 02,1975	
1,901	14,538	13	44	JAN 02,1975	
1,917	14,491	13	45	JAN 02,1975	

JOB NUMBER
SPG-11210-EE

DATE OF JOB
JANUARY 2, 1975

GAUGE/RUN NUMBER
136 DST 33

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1.933	14,632	13	46	JAN 02,1975	
1.949	14,585	13	47	JAN 02,1975	
1.966	14,678	13	48	JAN 02,1975	
1.982	14,632	13	49	JAN 02,1975	
1.998	14,632	13	50	JAN 02,1975	
2.014	14,678	13	51	JAN 02,1975	
2.030	14,585	13	52	JAN 02,1975	
2.046	14,678	13	53	JAN 02,1975	
2.062	14,678	13	54	JAN 02,1975	
2.078	14,678	13	55	JAN 02,1975	
2.094	14,678	13	56	JAN 02,1975	
2.111	14,678	13	57	JAN 02,1975	
2.127	14,725	13	58	JAN 02,1975	
2.143	14,725	13	59	JAN 02,1975	
2.159	14,678	14	00	JAN 02,1975	
2.175	14,678	14	00	JAN 02,1975	
2.191	14,538	14	01	JAN 02,1975	
2.207	14,632	14	02	JAN 02,1975	
2.223	14,678	14	03	JAN 02,1975	
2.239	14,772	14	04	JAN 02,1975	
2.256	14,678	14	05	JAN 02,1975	
2.272	14,632	14	06	JAN 02,1975	
2.288	14,632	14	07	JAN 02,1975	
2.304	14,725	14	08	JAN 02,1975	
2.320	14,772	14	09	JAN 02,1975	
2.336	14,772	14	10	JAN 02,1975	
2.352	14,772	14	11	JAN 02,1975	
2.368	14,819	14	12	JAN 02,1975	
2.384	14,725	14	13	JAN 02,1975	
2.401	14,725	14	14	JAN 02,1975	
2.417	14,725	14	15	JAN 02,1975	END FLOW

151 POINTS REPORTED THIS RUN

JOHNSTON

Schlumberger

technical report

COMPANY ATLANTIC-RICHFIELD COMPANY

WELL FEDERAL S. G. #17

TEST NO. 34

COUNTY RIO BLANCO

STATE COLORADO

II B-1464

F.R. #09117 C

JOHNSTON
...found a better way

SURFACE INFORMATION

cription (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool (1-4-75)	1602	-	-
CLOSED FOR INITIAL SHUT-IN	1604	-	-
FINISHED SHUT-IN	1634	-	-
RE-OPENED TOOL	1637	-	-
STARTED INJECTING WATER AT 2 GAL/MIN.	2345	-	-
(1-5-75)			
INCREASED INJECTION TO 5 GAL/MIN.	0005	-	-
INCREASED INJECTION TO 35 GAL/MIN.	0008	-	-
STOPPED INJECTIONS	0025	-	-
CLOSED TOOL	0101	-	-
PULLED PACKER LOOSE	0106	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER - FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested GREEN RIVER
Elevation 7036 Ft.
Net Productive Interval 50 Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 2170 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 298' I.D. -
Drill Pipe Length 1788' I.D. -
Packer Depth(s) 2116' & 2120' Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure P.S.I.G. at Surface
Recovery: Cu. Ft. Gas
cc. Oil
cc. Water
cc. Mud
Tot. Liquid cc.
Gravity °API @ °F.
Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Co ny ATLANTIC-RICHFIELD COMPANY
W FEDERAL S. G. #17 Location 436' FWL & 181' FSL SEC. 16-3s-96w
Field SORGHUM GULCH
Test Interval 2120' TO 2170' Test # 34 Date 1-4-75

County RIO BLANCO State COLORADO
II B-1465
Technician TAYLOR (VERNAL) Test Approved By MR. JERRY L. BUSSELL

Field Report No. 09117 C
No. Reports Requested 14 (13x)

DESCRIPTION	POINT	TIME OF DAY (1-4-75)	INCRE.	INSTRUMENT # 4633 N PRESSURE (P.S.I.G.)	INSTRUMENT # 4097 N PRESSURE (P.S.I.G.)
INITIAL HYDROSTATIC	1	-	-	708.0	715.9
TOOL OPENED	2	1602	0	133.7	152.9
CLOSED FOR INITIAL SHUT-IN	3	1604	2	152.0	175.4
			4	477.2	541.3
			6	635.8	656.7
			8	725.0	742.6
			10	784.0	808.8
			12	824.7	846.8
			14	841.7	865.1
			16	852.2	867.9
			18	858.7	869.3
			20	862.7	874.9
			22	865.3	877.7
			24	867.9	879.1
			26	870.5	880.5
			28	873.2	883.4
			30	874.5	884.8
			32	877.1	886.2
			34	878.4	886.2
INITIAL SHUT-IN	4	1637	35	878.4	886.2
TOOL RE-OPENED - INITIAL FLOW	5	1637	35	263.5	285.2
			36	284.4	307.7
			38	329.0	392.1
			40	368.4	406.2
			42	411.6	463.9
			44	441.8	490.7
			46	475.8	493.5
			48	500.8	528.7
			50	525.7	562.4
			52	553.2	569.5
			54	571.6	593.4
			56	595.2	620.2
			58	613.6	642.7
			60	630.6	653.9
			62	647.6	668.0
			64	666.0	687.7
			66	684.4	706.0
			68	697.5	715.9
			70	710.6	725.7
			72	725.0	741.2
			74	736.8	755.3
			76	748.6	763.7
			78	757.8	769.3
			80	767.0	780.6
			82	777.4	791.9
			84	785.3	794.7
			86	794.5	801.7
			88	801.1	808.8
			90	807.6	815.8
			92	815.5	822.8
			94	820.7	828.5
			96	826.0	838.3
			98	831.2	843.9

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT# 4633 N PRESSURE(P.S.I.G.)	INSTRUMENT# 4097 N PRESSURE(P.S.I.G.)
			100	835.1	846.8
			102	840.4	851.0
			104	844.3	855.2
			106	848.3	859.4
			108	850.9	862.2
			110	854.8	865.1
			112	857.4	869.3
			114	860.1	872.1
			116	862.7	873.5
			118	865.3	874.9
			120	867.9	877.7
			122	869.2	879.1
			124	870.5	881.9
			126	871.9	881.9
			128	873.2	884.8
			130	875.8	886.2
			132	877.1	887.6
			134	878.4	889.0
			136	879.7	889.0
			138	881.0	890.4
			140	882.3	891.8
			142	883.6	893.2
			144	883.6	894.6
			146	885.0	896.0
			148	885.0	896.0
			150	886.3	896.0
			152	887.6	897.4
			154	888.9	898.8
			156	888.9	898.8
			158	890.2	900.2
			160	890.2	900.2
			162	891.5	901.7
			164	891.5	903.1
			166	892.8	903.1
			168	894.1	904.5
			170	894.1	904.5
			172	894.1	904.5
			174	895.5	905.9
			176	896.8	905.9
			178	896.8	907.3
			180	896.8	907.3
			182	898.1	907.3
			184	898.1	908.7
			186	899.4	908.7
			188	899.4	910.1
			190	900.7	910.1
			192	900.7	911.5
			194	902.0	912.9
			196	903.3	914.3
			198	904.6	915.7
			200	906.0	915.7
			202	906.0	917.1
			204	907.3	920.0
			206	907.3	918.5
			208	908.6	918.5

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT # 4633 N PRESSURE (P.S.I.G.)	INSTRUMENT# 4097 N PRESSURE (P.S.I.G.)
			210	908.6	921.4
			212	909.9	921.4
			214	909.9	921.4
			216	909.9	921.4
			218	911.2	922.8
			220	912.5	922.8
			222	912.5	922.8
			224	912.5	924.1
			226	913.8	924.1
			228	913.8	924.1
			230	913.8	924.1
			232	913.8	924.1
STARTED JETTING WATER	6	1956	234	913.8	924.2
			236	920.4	924.2
			238	920.4	924.2
JETTING	7	2002	240	941.4	952.3
			242	726.3	746.8
JETTING	8	2005	243	717.1	737.0
			244	717.1	725.7
			246	713.2	720.1
			248	709.3	717.3
			250	708.0	717.3
			252	706.6	714.5
			254	704.0	713.0
			256	702.7	711.6
			258	701.4	710.2
			260	700.1	707.4
			262	698.8	706.0
			264	696.2	706.0
			266	698.8	708.9
			268	700.1	708.9
			270	700.1	708.9
			272	698.8	707.4
			274	698.8	707.4
			276	698.8	707.4
			278	698.8	706.0
			280	697.5	703.2
			282	696.2	703.2
			284	696.2	706.0
			286	697.5	706.0
			288	697.5	706.0
			290	697.5	706.0
			292	697.5	706.0
			294	697.5	706.0
JETTING	9	2058	296	697.5	706.0
FINISHED JETTING	10	2100	298	664.7	675.0
			300	688.3	706.0
			302	708.0	724.3
			304	723.7	740.0
			306	739.4	753.9
			308	753.9	767.9
			310	765.7	782.0
			312	779.0	798.9
			314	787.9	811.6
			316	797.1	814.4

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT# 4633 N PRESSURE(P.S.I.G.)	INSTRUMENT# 4097 N PRESSURE(P.S.I.G.)
			318	807.6	822.8
			320	816.8	835.5
			322	824.7	843.9
			324	831.2	846.8
			326	837.8	855.2
			328	844.3	863.7
			330	850.9	867.9
			332	857.4	870.7
			334	861.4	874.9
			336	865.3	879.1
			338	869.2	883.4
			340	871.9	884.8
			342	875.8	890.0
			344	878.4	890.4
			346	879.7	893.2
			348	883.7	896.0
			350	885.0	898.8
			352	887.6	901.7
			354	890.2	903.1
			356	892.8	904.5
			358	894.1	907.3
			360	896.8	908.7
			362	898.1	910.1
			364	899.4	911.5
			366	900.7	912.9
			368	902.0	914.3
			370	903.3	914.3
			372	904.6	915.7
			374	906.0	915.7
			376	906.0	917.1
			378	907.3	918.5
			380	908.6	920.0
			382	909.9	920.0
			384	909.9	921.4
			386	911.2	922.8
			388	911.2	924.1
			390	912.5	924.1
			392	912.5	925.6
			394	913.8	925.6
			396	913.8	925.6
			398	915.1	927.0
			400	916.4	928.4
			402	916.4	928.4
			404	916.4	928.4
			406	916.4	928.4
			408	917.8	929.8
			410	919.1	929.8
			412	919.1	931.2
			414	919.1	932.6
			416	920.4	932.6
			418	920.4	932.6
			420	920.4	932.6
			422	921.7	934.0
			424	921.7	934.0
			426	923.0	935.4

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT # 4633 N PRESSURE (P.S.I.G.)	INSTRUMENT # 4097 N PRESSURE (P.S.I.G.)
			428	923.0	935.4
			430	923.0	935.4
			432	924.3	935.4
			434	924.3	936.8
			436	924.3	936.8
			438	925.6	936.8
			440	925.6	936.8
			442	925.6	936.8
			444	926.9	938.2
			446	926.9	939.7
			448	926.9	939.7
			450	928.2	939.7
			452	928.2	939.7
			454	928.2	939.7
			456	929.6	939.7
			458	929.6	941.1
			460	929.6	941.1
STARTED INJECTION - 2 GAL/MIN.			462	929.6	941.1
			464	930.9	943.9
			466	932.2	945.3
			468	933.5	945.3
			470	934.8	946.7
			472	934.8	946.7
			474	934.8	946.7
			476	934.8	946.7
			478	934.8	946.7
			480	934.8	946.7
			(1-5-75)		
STARTED - 5 GAL/MIN.	11	0004	482	934.8	946.7
			484	942.7	956.5
STARTED - 35 GAL/MIN.	12	0008	486	947.9	960.8
			488	947.9	960.8
			490	947.9	959.4
			492	947.9	959.4
			494	947.9	959.4
			496	947.9	959.4
			498	947.9	959.4
			500	947.9	959.4
FINISHED INJECTION-STARTED PRESSURE-FALL OFF			502	947.9	956.5
			504	946.6	955.1
			506	945.3	955.1
			508	942.7	953.7
			510	942.7	953.7
			512	942.7	953.7
			514	942.7	953.7
			516	942.7	953.7
			518	942.7	953.7
			520	942.7	953.7
			522	942.7	953.7
			524	942.7	953.7
			526	942.7	953.7
			528	942.7	953.7
			530	942.7	953.7
			532	942.7	953.7
			534	942.7	953.7

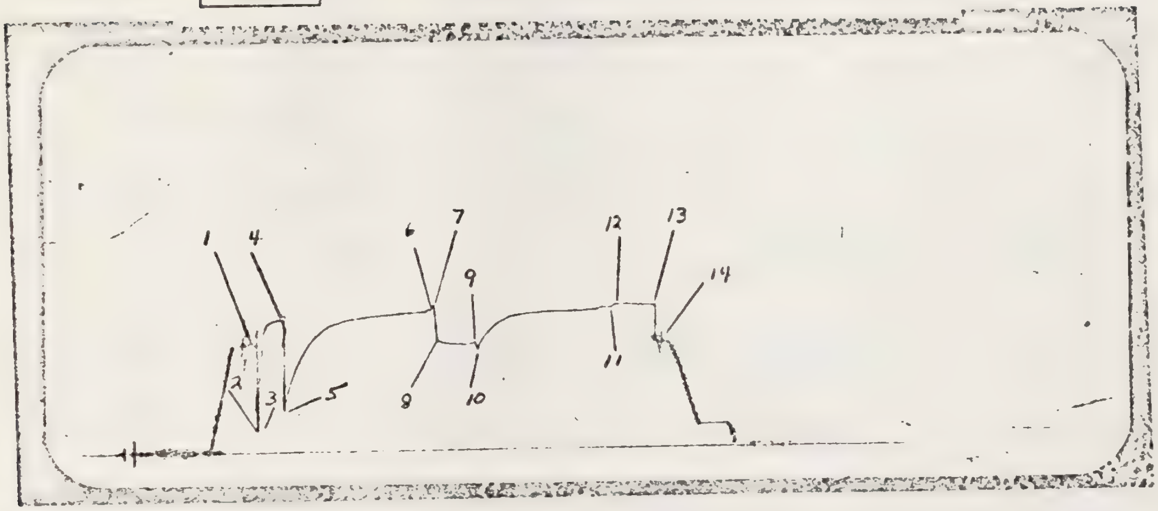
FIELD REPORT NO. 09117 C

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT # 4633 N PRESSURE (P.S.I.G.)	INSTRUMENT # 4097 N PRESSURE (P.S.I.G.)
			536	942.7	953.7
			538	942.7	953.7
CLOSED TOOL-PULLED PACKER LOOSE	13	0101	539	942.7	953.7
FINAL HYDROSTATIC	14	-	-	719.8	725.7
CAPACITY (P.S.I.G.)				2600	2800
INSTRUMENT DEPTH				2095'	2122'
INSTRUMENT OPENING				INSIDE	OUTSIDE

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

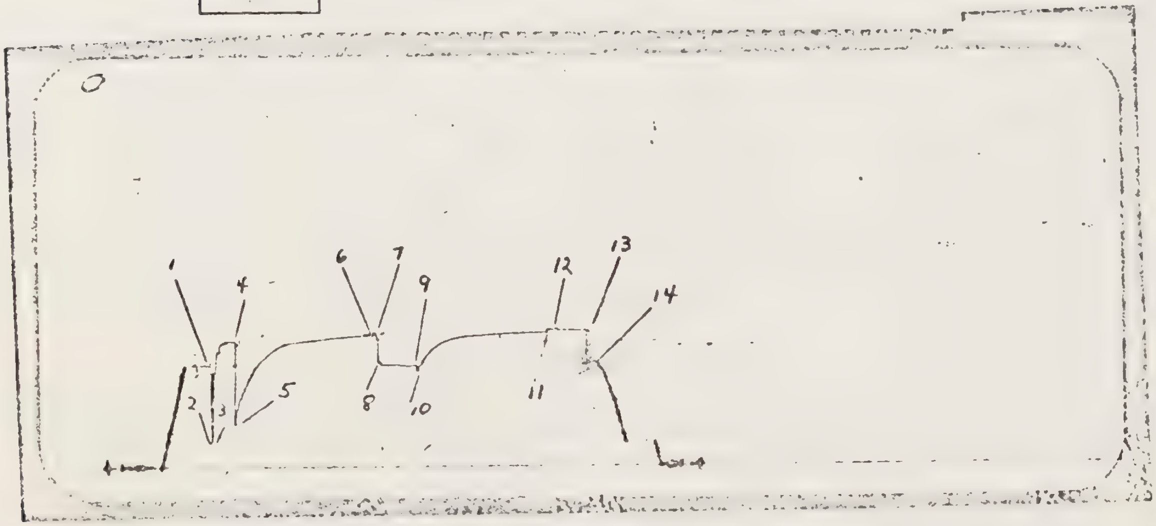
JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09117 C	4633 N
CAPACITY	REPORTS REQUESTED
2600#	14+



JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09117 C	4097 N
CAPACITY	REPORTS REQUESTED
2800#	14+



Job No. [illegible] Date 1/4/75 Run DST #34 Office [illegible]

Customer [illegible] Location [illegible]

State [illegible] County/Parish [illegible]

Well [illegible] No. 11 Field [illegible]

USE MILITARY TIME FOR ALL TIMES

	Time	Date		Time	Date	Time Charged
Arrive: Well/Dock	1. 1300	1/4/75	2.			
Depart: Well/Dock	1. 0430	1/5/75	2.			27 Hrs.
Gauge Start in Hole	1. 1337	1/4/75	2.			
Gauge Out of Hole	1. 0357	1/5/75	2.			26 Hrs.

No. Trips 1 Miles 45 Total Mileage 90

Top Gauge # 143 Element # 30949 Range 1000# Time Mode 1 MIN

Btm. Gauge # 219 Element # 35988 Range 1400# Time Mode 1 MIN

Type Tool [illegible] Test Depth 2120-2170 Zero Point GROUND LEVEL

Packer Depth 2116 3120 Tail Pipe Depth 3170 Top Gauge Depth 2078

Bottom Hole Temp. ____ Atmos. Temp. ____ Bottom Gauge Depth 2131

TIME INFORMATION	Time	Date	PRESSURE INFORMATION	
On Bottom	1600	1/4/75	Initial Hydrostatic Mud	
Packer Set	1600	"	Initial Draw Down	
Initial Open	1602	"	Initial Build-Up	
Initial Shut-In	1604-1634	"	Final Flow	
Start Flow	1637	"	Final Build-Up	
Final Shut-In	0101	1/5/75	Final Hydrostatic Mud	
Packer Unseated	0106	1/5/75	Mud Weight	

TIME OF SURFACE NULLS

Top Gauge 1350 1351 1352 Bottom Gauge 1334 1335 1336

Remarks [illegible] (initial or final) [illegible]

SP-423

II B-1473

Operator

JOB NUMBER
SPG-11210-GG

DATE OF JOB
JANUARY 04, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT C-B
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE 143 WITH 1000 LB ELEMENT

GAUGE DEPTH WAS 2078 FT, ANNULUS

PACKER SET AT 2120 FT,

GROUND LEVEL REFERENCE IS 7036 FT,

INITIAL HYDROSTATIC WAS 696,53 PSI

FINAL HYDROSTATIC 700,47 PSI

TEST INTERVAL WAS FROM SURFACE

TO 2120 PACKER DEPTH

466 POINTS REPORTED THIS JOB

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JOB NUMBER                                                              DATE OF JOB
EPG-11210-GG                                                       JANUARY 04, 1975

GAUGE/RUN NUMBER                                                        DATE OF RUN
143   DST-34 INITIAL FLOW

                                  SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA    PRESSURE                   TIME      DATE            COMMENTS
   TIME      (PSI)                    HR MIN

   0.000     698.925                  16  02 JAN 04,1975    INITIAL OPEN
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II B-1175

1 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-GG

DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
[illegible]43 UST-34 SHUTIN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	698,925	16	04	JAN 04,1975	INITIAL SHUTIN
,016	699,233	16	05	JAN 04,1975	
,031	699,067	16	06	JAN 04,1975	
,047	698,687	16	07	JAN 04,1975	
,063	707,912	16	08	JAN 04,1975	
,079	698,000	16	09	JAN 04,1975	
,094	698,023	16	10	JAN 04,1975	
,110	698,000	16	11	JAN 04,1975	
,126	697,763	16	12	JAN 04,1975	
,141	697,620	16	12	JAN 04,1975	
,157	697,525	16	13	JAN 04,1975	
,173	697,573	16	14	JAN 04,1975	
,189	697,359	16	15	JAN 04,1975	
,204	697,312	16	16	JAN 04,1975	
,220	697,241	16	17	JAN 04,1975	
,236	697,193	16	18	JAN 04,1975	
,251	697,193	16	19	JAN 04,1975	
,267	697,122	16	20	JAN 04,1975	
,283	697,099	16	21	JAN 04,1975	
,299	697,075	16	22	JAN 04,1975	
,314	697,075	16	23	JAN 04,1975	
,330	697,051	16	24	JAN 04,1975	
,346	697,004	16	25	JAN 04,1975	
,361	697,004	16	26	JAN 04,1975	
,377	697,004	16	27	JAN 04,1975	
,393	696,980	16	28	JAN 04,1975	
,409	697,051	16	29	JAN 04,1975	
,424	697,004	16	29	JAN 04,1975	
,440	697,004	16	30	JAN 04,1975	
,456	697,004	16	31	JAN 04,1975	
,471	697,004	16	32	JAN 04,1975	
,487	697,004	16	33	JAN 04,1975	
,503	697,004	16	34	JAN 04,1975	
,519	697,027	16	35	JAN 04,1975	
,534	697,004	16	36	JAN 04,1975	
,550	705,849	16	37	JAN 04,1975	END SHUT IN

36 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-GG

DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	705,849	16	37	JAN 04,1975	FINAL OPEN
,017	697,407	16	38	JAN 04,1975	
,033	697,454	16	39	JAN 04,1975	
,050	697,668	16	40	JAN 04,1975	
,067	697,454	16	41	JAN 04,1975	
,083	697,502	16	42	JAN 04,1975	
,100	697,431	16	43	JAN 04,1975	
,117	697,431	16	44	JAN 04,1975	
,133	697,431	16	45	JAN 04,1975	
,150	697,407	16	46	JAN 04,1975	
,167	697,383	16	47	JAN 04,1975	
,183	697,336	16	48	JAN 04,1975	
,200	697,383	16	49	JAN 04,1975	
,217	697,383	16	50	JAN 04,1975	
,233	697,336	16	51	JAN 04,1975	
,250	697,407	16	52	JAN 04,1975	
,267	697,359	16	53	JAN 04,1975	
,283	697,407	16	54	JAN 04,1975	
,300	697,407	16	55	JAN 04,1975	
,317	697,407	16	56	JAN 04,1975	
,333	697,431	16	57	JAN 04,1975	
,350	697,431	16	58	JAN 04,1975	
,367	697,431	16	59	JAN 04,1975	
,383	697,454	17	00	JAN 04,1975	
,400	697,454	17	01	JAN 04,1975	
,417	697,478	17	02	JAN 04,1975	
,433	697,478	17	03	JAN 04,1975	
,450	697,478	17	04	JAN 04,1975	
,467	697,502	17	05	JAN 04,1975	
,483	697,502	17	06	JAN 04,1975	
,500	697,549	17	07	JAN 04,1975	
,517	697,525	17	08	JAN 04,1975	
,533	697,573	17	09	JAN 04,1975	
,550	697,525	17	10	JAN 04,1975	
,567	697,573	17	11	JAN 04,1975	
,583	697,573	17	12	JAN 04,1975	
,600	697,620	17	13	JAN 04,1975	
,617	697,597	17	14	JAN 04,1975	
,633	697,668	17	15	JAN 04,1975	
,650	697,597	17	16	JAN 04,1975	

JOB NUMBER SPG-11210-GG	DATE OF JOB JANUARY 04, 1975
GAUGE/RUN NUMBER 143 DST-34 FINAL FLOW	DATE OF RUN

SPERRY-SUN

PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
,667	697,644	17	17	JAN 04,1975	
,683	697,715	17	18	JAN 04,1975	
,700	697,691	17	19	JAN 04,1975	
,717	697,668	17	20	JAN 04,1975	
,733	697,691	17	21	JAN 04,1975	
,750	697,739	17	22	JAN 04,1975	
,767	697,739	17	23	JAN 04,1975	
,783	697,763	17	24	JAN 04,1975	
,800	697,763	17	25	JAN 04,1975	
,817	697,786	17	26	JAN 04,1975	
,833	697,786	17	27	JAN 04,1975	
,850	697,810	17	28	JAN 04,1975	
,867	697,786	17	29	JAN 04,1975	
,883	697,834	17	30	JAN 04,1975	
,900	697,834	17	31	JAN 04,1975	
,917	697,857	17	32	JAN 04,1975	
,933	697,881	17	33	JAN 04,1975	
,950	697,857	17	34	JAN 04,1975	
,967	697,881	17	35	JAN 04,1975	
,983	697,881	17	36	JAN 04,1975	
1,000	697,905	17	37	JAN 04,1975	
1,017	697,905	17	38	JAN 04,1975	
1,033	697,929	17	39	JAN 04,1975	
1,050	697,952	17	40	JAN 04,1975	
1,067	697,976	17	41	JAN 04,1975	
1,083	698,000	17	42	JAN 04,1975	
1,100	698,000	17	43	JAN 04,1975	
1,117	697,976	17	44	JAN 04,1975	
1,133	697,976	17	45	JAN 04,1975	
1,150	698,000	17	46	JAN 04,1975	
1,167	698,047	17	47	JAN 04,1975	
1,183	698,047	17	48	JAN 04,1975	
1,200	698,047	17	49	JAN 04,1975	
1,217	698,071	17	50	JAN 04,1975	
1,233	698,071	17	51	JAN 04,1975	
1,250	698,142	17	52	JAN 04,1975	
1,267	698,142	17	53	JAN 04,1975	
1,283	698,142	17	54	JAN 04,1975	
1,300	698,166	17	55	JAN 04,1975	
1,317	698,213	17	56	JAN 04,1975	

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DATE OF JOB
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GAUGE/RUN NUMBER
103 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,333	698,189	17	57	JAN 04,1975	
1,350	698,237	17	58	JAN 04,1975	
1,367	698,237	17	59	JAN 04,1975	
1,383	698,213	18	00	JAN 04,1975	
1,400	698,237	18	01	JAN 04,1975	
1,417	698,261	18	02	JAN 04,1975	
1,433	698,284	18	03	JAN 04,1975	
1,450	698,355	18	04	JAN 04,1975	
1,467	698,332	18	05	JAN 04,1975	
1,483	698,284	18	06	JAN 04,1975	
1,500	698,379	18	07	JAN 04,1975	
1,517	698,355	18	08	JAN 04,1975	
1,533	698,355	18	09	JAN 04,1975	
1,550	698,403	18	10	JAN 04,1975	
1,567	698,403	18	11	JAN 04,1975	
1,583	698,403	18	12	JAN 04,1975	
1,600	698,403	18	13	JAN 04,1975	
1,617	698,403	18	14	JAN 04,1975	
1,633	698,427	18	15	JAN 04,1975	
1,650	698,450	18	16	JAN 04,1975	
1,667	698,450	18	17	JAN 04,1975	
1,683	698,474	18	18	JAN 04,1975	
1,700	698,498	18	19	JAN 04,1975	
1,717	698,474	18	20	JAN 04,1975	
1,733	698,545	18	21	JAN 04,1975	
1,750	698,521	18	22	JAN 04,1975	
1,767	698,545	18	23	JAN 04,1975	
1,783	698,545	18	24	JAN 04,1975	
1,800	698,545	18	25	JAN 04,1975	
1,817	698,545	18	26	JAN 04,1975	
1,833	698,569	18	27	JAN 04,1975	
1,850	698,569	18	28	JAN 04,1975	
1,867	698,569	18	29	JAN 04,1975	
1,883	698,616	18	30	JAN 04,1975	
1,900	698,616	18	31	JAN 04,1975	
1,917	698,640	18	32	JAN 04,1975	
1,933	698,640	18	33	JAN 04,1975	
1,950	698,640	18	34	JAN 04,1975	
1,967	698,640	18	35	JAN 04,1975	
1,983	698,687	18	36	JAN 04,1975	

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GAUGE/RUN NUMBER 143 DST-34 FINAL FLOW	DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,000	698,664	18	37	JAN 04,1975	
2,017	698,687	18	38	JAN 04,1975	
2,033	698,711	18	39	JAN 04,1975	
2,050	698,735	18	40	JAN 04,1975	
2,067	698,735	18	41	JAN 04,1975	
2,083	698,735	18	42	JAN 04,1975	
2,100	698,735	18	43	JAN 04,1975	
2,117	698,735	18	44	JAN 04,1975	
2,133	698,735	18	45	JAN 04,1975	
2.150	698,806	18	46	JAN 04,1975	
2,167	698,782	18	47	JAN 04,1975	
2,183	698,782	18	48	JAN 04,1975	
2,200	698,782	18	49	JAN 04,1975	
2,217	698,806	18	50	JAN 04,1975	
2,233	698,806	18	51	JAN 04,1975	
2,250	698,853	18	52	JAN 04,1975	
2,267	698,853	18	53	JAN 04,1975	
2,283	698,853	18	54	JAN 04,1975	
2,300	698,877	18	55	JAN 04,1975	
2,317	698,877	18	56	JAN 04,1975	
2.333	698,901	18	57	JAN 04,1975	
2,350	698,925	18	58	JAN 04,1975	
2,367	698,925	18	59	JAN 04,1975	
2,383	698,901	19	00	JAN 04,1975	
2,400	698,948	19	01	JAN 04,1975	
2,417	698,925	19	02	JAN 04,1975	
2,433	698,972	19	03	JAN 04,1975	
2,450	698,925	19	04	JAN 04,1975	
2,467	698,948	19	05	JAN 04,1975	
2,483	698,972	19	06	JAN 04,1975	
2,500	698,972	19	07	JAN 04,1975	
2,517	698,972	19	08	JAN 04,1975	
2,533	698,972	19	09	JAN 04,1975	
2,550	699,043	19	10	JAN 04,1975	
2.567	698,996	19	11	JAN 04,1975	
2,583	699,043	19	12	JAN 04,1975	
2,600	699,067	19	13	JAN 04,1975	
2,617	699,067	19	14	JAN 04,1975	
2,633	699,043	19	15	JAN 04,1975	
2,650	699,091	19	16	JAN 04,1975	

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DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2,667	699,043	19	17	JAN 04,1975	
2,683	699,091	19	18	JAN 04,1975	
2,700	699,091	19	19	JAN 04,1975	
2,717	699,114	19	20	JAN 04,1975	
2,733	699,138	19	21	JAN 04,1975	
2,750	699,162	19	22	JAN 04,1975	
2,767	699,043	19	23	JAN 04,1975	
2,783	699,162	19	24	JAN 04,1975	
2,800	699,162	19	25	JAN 04,1975	
2,817	699,162	19	26	JAN 04,1975	
2,833	699,162	19	27	JAN 04,1975	
2,850	699,185	19	28	JAN 04,1975	
2,867	699,185	19	29	JAN 04,1975	
2,883	699,233	19	30	JAN 04,1975	
2,900	699,209	19	31	JAN 04,1975	
2,917	699,233	19	32	JAN 04,1975	
2,933	699,257	19	33	JAN 04,1975	
2,950	699,280	19	34	JAN 04,1975	
2,967	699,304	19	35	JAN 04,1975	
2,983	699,304	19	36	JAN 04,1975	
3,000	699,280	19	37	JAN 04,1975	
3,017	699,304	19	38	JAN 04,1975	
3,033	699,351	19	39	JAN 04,1975	
3,050	699,328	19	40	JAN 04,1975	
3,067	699,351	19	41	JAN 04,1975	
3,083	699,328	19	42	JAN 04,1975	
3,100	699,328	19	43	JAN 04,1975	
3,117	699,351	19	44	JAN 04,1975	
3,133	699,399	19	45	JAN 04,1975	
3,150	699,399	19	46	JAN 04,1975	
3,167	699,375	19	47	JAN 04,1975	
3,183	699,423	19	48	JAN 04,1975	
3,200	699,446	19	49	JAN 04,1975	
3,217	699,423	19	50	JAN 04,1975	
3,233	699,423	19	51	JAN 04,1975	
3,250	699,399	19	52	JAN 04,1975	
3,267	699,399	19	53	JAN 04,1975	
3,283	699,423	19	54	JAN 04,1975	
3,300	699,423	19	55	JAN 04,1975	
3,317	699,446	19	56	JAN 04,1975	

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143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
3,333	699,446	19	57	JAN 04,1975	
3,350	699,446	19	58	JAN 04,1975	
3,367	699,423	19	59	JAN 04,1975	
3,383	699,423	20	00	JAN 04,1975	START JETTING
3,400	699,446	20	01	JAN 04,1975	AT 6 GPM
3,417	699,446	20	02	JAN 04,1975	
3,433	699,446	20	03	JAN 04,1975	
3,450	699,446	20	04	JAN 04,1975	
3,467	699,470	20	05	JAN 04,1975	
3,483	699,470	20	06	JAN 04,1975	
3,500	699,494	20	07	JAN 04,1975	
3,517	699,470	20	08	JAN 04,1975	
3,533	699,470	20	09	JAN 04,1975	
3,550	699,470	20	10	JAN 04,1975	
3,567	699,470	20	11	JAN 04,1975	
3,583	699,446	20	12	JAN 04,1975	
3,600	699,494	20	13	JAN 04,1975	
3,617	699,541	20	14	JAN 04,1975	
3,633	699,470	20	15	JAN 04,1975	
3,650	699,470	20	16	JAN 04,1975	
3,667	699,494	20	17	JAN 04,1975	
3,683	699,494	20	18	JAN 04,1975	
3,700	699,494	20	19	JAN 04,1975	
3,717	699,494	20	20	JAN 04,1975	
3,733	699,494	20	21	JAN 04,1975	
3,750	699,494	20	22	JAN 04,1975	
3,767	699,517	20	23	JAN 04,1975	
3,783	699,494	20	24	JAN 04,1975	
3,800	699,494	20	25	JAN 04,1975	
3,817	699,541	20	26	JAN 04,1975	
3,833	699,517	20	27	JAN 04,1975	
3,850	699,517	20	28	JAN 04,1975	
3,867	699,517	20	29	JAN 04,1975	
3,883	699,541	20	30	JAN 04,1975	
3,900	699,565	20	31	JAN 04,1975	
3,917	699,541	20	32	JAN 04,1975	
3,933	699,612	20	33	JAN 04,1975	
3,950	699,588	20	34	JAN 04,1975	
3,967	699,588	20	35	JAN 04,1975	
3,983	699,565	20	36	JAN 04,1975	

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143 DST-34 FINAL FLOW

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4,000	699,588	20	37	JAN 04,1975	
4,017	699,612	20	38	JAN 04,1975	
4,033	699,612	20	39	JAN 04,1975	
4,050	699,636	20	40	JAN 04,1975	
4,067	699,612	20	41	JAN 04,1975	
4,083	699,612	20	42	JAN 04,1975	
4,100	699,636	20	43	JAN 04,1975	
4,117	699,636	20	44	JAN 04,1975	
4,133	699,636	20	45	JAN 04,1975	
4,150	699,660	20	46	JAN 04,1975	
4,167	699,683	20	47	JAN 04,1975	
4,183	699,683	20	48	JAN 04,1975	
4,200	699,707	20	49	JAN 04,1975	
4,217	699,707	20	50	JAN 04,1975	
4,233	699,707	20	51	JAN 04,1975	
4,250	699,707	20	52	JAN 04,1975	
4,267	699,707	20	53	JAN 04,1975	
4,283	699,731	20	54	JAN 04,1975	
4,300	699,731	20	55	JAN 04,1975	
4,317	699,707	20	56	JAN 04,1975	
4,333	699,731	20	57	JAN 04,1975	
4,350	699,778	20	58	JAN 04,1975	
4,367	699,754	20	59	JAN 04,1975	
4,383	699,754	21	00	JAN 04,1975	END JETTING
4,400	699,802	21	01	JAN 04,1975	
4,417	699,826	21	02	JAN 04,1975	
4,433	699,826	21	03	JAN 04,1975	
4,450	699,802	21	04	JAN 04,1975	
4,467	699,778	21	05	JAN 04,1975	
4,483	699,849	21	06	JAN 04,1975	
4,500	699,849	21	07	JAN 04,1975	
4,517	699,826	21	08	JAN 04,1975	
4,533	699,849	21	09	JAN 04,1975	
4,550	699,873	21	10	JAN 04,1975	
4,567	699,873	21	11	JAN 04,1975	
4,583	699,897	21	12	JAN 04,1975	
4,600	699,920	21	13	JAN 04,1975	
4,617	699,897	21	14	JAN 04,1975	
4,633	699,920	21	15	JAN 04,1975	
4,650	699,920	21	16	JAN 04,1975	

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143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4,667	699,944	21	17	JAN 04,1975	
4,683	699,968	21	18	JAN 04,1975	
4,700	699,920	21	19	JAN 04,1975	
4,717	699,968	21	20	JAN 04,1975	
4,733	699,992	21	21	JAN 04,1975	
4,750	699,968	21	22	JAN 04,1975	
4,767	700,015	21	23	JAN 04,1975	
4,783	699,992	21	24	JAN 04,1975	
4,800	700,015	21	25	JAN 04,1975	
4,817	700,039	21	26	JAN 04,1975	
4,833	700,015	21	27	JAN 04,1975	
4,850	700,063	21	28	JAN 04,1975	
4,867	700,063	21	29	JAN 04,1975	
4,883	700,110	21	30	JAN 04,1975	
4,900	700,134	21	31	JAN 04,1975	
4,917	700,063	21	32	JAN 04,1975	
4,933	700,110	21	33	JAN 04,1975	
4,950	700.134	21	34	JAN 04,1975	
4,967	700,134	21	35	JAN 04,1975	
4,983	700,134	21	36	JAN 04,1975	
5,000	700,134	21	37	JAN 04,1975	
5,017	700,181	21	38	JAN 04,1975	
5,033	700,181	21	39	JAN 04,1975	
5,050	700,205	21	40	JAN 04,1975	
5,067	700,158	21	41	JAN 04,1975	
5,083	700,205	21	42	JAN 04,1975	
5,100	700,205	21	43	JAN 04,1975	
5,117	700,229	21	44	JAN 04,1975	GAUGE STOPPED
6,400	719,413	23	01	JAN 04,1975	GAUGE STARTED
6,417	724,630	23	02	JAN 04,1975	DURING 60 GPM
6,433	724,772	23	03	JAN 04,1975	DOWN ANNULUS
6,450	724,843	23	04	JAN 04,1975	
6,467	724,914	23	05	JAN 04,1975	
6,483	725,009	23	06	JAN 04,1975	
6,500	725,056	23	07	JAN 04,1975	
6,517	725,199	23	08	JAN 04,1975	
6,533	725,294	23	09	JAN 04,1975	
6,550	725,412	23	10	JAN 04,1975	
6,567	725,483	23	11	JAN 04,1975	
6,583	725,531	23	12	JAN 04,1975	

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DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6,600	725,626	23	13	JAN 04,1975	
6,617	725,649	23	14	JAN 04,1975	
6,633	725,744	23	15	JAN 04,1975	
6,650	725,839	23	16	JAN 04,1975	
6,667	725,863	23	17	JAN 04,1975	
6,683	725,910	23	18	JAN 04,1975	
6,700	726,005	23	19	JAN 04,1975	
6,717	726,076	23	20	JAN 04,1975	DECLINE AFTER
6.733	725.792	23	21	JAN 04,1975	ANNULUS INJECT
6.750	723,397	23	22	JAN 04,1975	
6.767	720,693	23	23	JAN 04,1975	
6.783	718,251	23	24	JAN 04,1975	
6,800	716,164	23	25	JAN 04,1975	
6.817	714,314	23	26	JAN 04,1975	
6,833	712,678	23	27	JAN 04,1975	
6,850	711,303	23	28	JAN 04,1975	
6.867	710,188	23	29	JAN 04,1975	
6.883	709,240	23	30	JAN 04,1975	
6,900	708,410	23	31	JAN 04,1975	
6,917	707,627	23	32	JAN 04,1975	
6,933	706,987	23	33	JAN 04,1975	
6,950	706,442	23	34	JAN 04,1975	
6,967	705,920	23	35	JAN 04,1975	
6,983	705,469	23	36	JAN 04,1975	
7,000	705,161	23	37	JAN 04,1975	
7,017	704,782	23	38	JAN 04,1975	
7,033	704,497	23	39	JAN 04,1975	
7,050	704,236	23	40	JAN 04,1975	END DECLINE
7,067	704,023	23	41	JAN 04,1975	
7,083	703,833	23	42	JAN 04,1975	
7,100	703,572	23	43	JAN 04,1975	
7,117	703,383	23	44	JAN 04,1975	
7,133	703,288	23	45	JAN 04,1975	2 GPM INSIDE
7,150	703,098	23	46	JAN 04,1975	DRILL PIPE
7,167	702,979	23	47	JAN 04,1975	
7,183	702,861	23	48	JAN 04,1975	
7,200	702,813	23	49	JAN 04,1975	
7,217	702,553	23	50	JAN 04,1975	
7,233	702,505	23	51	JAN 04,1975	
7,250	702,553	23	52	JAN 04,1975	

JOB NUMBER
SPG-11210-GG

DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
7,267	702,482	23	53	JAN 04,1975	
7,283	702,434	23	54	JAN 04,1975	
7,300	702,363	23	55	JAN 04,1975	
7,317	702,316	23	56	JAN 04,1975	
7,333	702,292	23	57	JAN 04,1975	
7,350	702,244	23	58	JAN 04,1975	
7,367	702,197	23	59	JAN 04,1975	
7,383	702,126	00	00	JAN 05,1975	
7,400	702,150	00	01	JAN 05,1975	
7,417	702,126	00	02	JAN 05,1975	
7,433	702,150	00	03	JAN 05,1975	
7,450	702,078	00	04	JAN 05,1975	
7,467	702,007	00	05	JAN 05,1975	5 GPM INSIDE
7,483	702,031	00	06	JAN 05,1975	DRILL PIPE
7,500	702,007	00	07	JAN 05,1975	
7,517	701,984	00	08	JAN 05,1975	OVERFLOW AT
7,533	701,984	00	09	JAN 05,1975	3,5 GPM
7,550	701,984	00	10	JAN 05,1975	
7,567	701,936	00	11	JAN 05,1975	
7,583	701,960	00	12	JAN 05,1975	
7,600	701,960	00	13	JAN 05,1975	
7,617	702,031	00	14	JAN 05,1975	
7,633	701,984	00	15	JAN 05,1975	
7,650	701,984	00	16	JAN 05,1975	
7,667	702,007	00	17	JAN 05,1975	
7,683	702,007	00	18	JAN 05,1975	
7,700	701,984	00	19	JAN 05,1975	
7,717	701,960	00	20	JAN 05,1975	
7,733	702,031	00	21	JAN 05,1975	
7,750	702,031	00	22	JAN 05,1975	
7,767	702,031	00	23	JAN 05,1975	
7,783	702,007	00	24	JAN 05,1975	
7,800	702,007	00	25	JAN 05,1975	START DECLINE
7,817	702,031	00	26	JAN 05,1975	
7,833	702,031	00	27	JAN 05,1975	
7,850	702,031	00	28	JAN 05,1975	
7,867	702,055	00	29	JAN 05,1975	
7,883	702,031	00	30	JAN 05,1975	
7,900	702,007	00	31	JAN 05,1975	
7,917	702,007	00	32	JAN 05,1975	

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JOB NUMBER                                                           DATE OF JOB
SPG-11210-GG                                                    JANUARY 04, 1975

GAUGE/RUN NUMBER                                                     DATE OF RUN
143  DST-34  FINAL FLOW

                                  SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA    PRESSURE                      TIME      DATE                COMMENTS
   TIME      (PSI)                       HR MIN

   7,933     702,007                     00   33 JAN 05,1975
   7,950     702,031                     00   34 JAN 05,1975
   7,967     702,007                     00   35 JAN 05,1975
   7,983     702,007                     00   36 JAN 05,1975
   8,000     702,007                     00   37 JAN 05,1975
   8,017     701,984                     00   38 JAN 05,1975
   8,033     701,960                     00   39 JAN 05,1975
   8,050     701,984                     00   40 JAN 05,1975
   8,067     702,007                     00   41 JAN 05,1975
   8,083     702,007                     00   42 JAN 05,1975
   8,100     702,007                     00   43 JAN 05,1975
   8,117     701,960                     00   44 JAN 05,1975
   8,133     702,031                     00   45 JAN 05,1975
   8,150     702,007                     00   46 JAN 05,1975
   8,167     701,984                     00   47 JAN 05,1975
   8,183     701,984                     00   48 JAN 05,1975
   8,200     701,984                     00   49 JAN 05,1975
   8,217     702,031                     00   50 JAN 05,1975
   8,233     702,031                     00   51 JAN 05,1975
   8,250     702,007                     00   52 JAN 05,1975
   8,267     702,055                     00   53 JAN 05,1975
   8,283     702,031                     00   54 JAN 05,1975
   8,300     701,984                     00   55 JAN 05,1975   END DECLINE
   8,317     702,007                     00   56 JAN 05,1975
   8,333     702,007                     00   57 JAN 05,1975
   8,350     702,055                     00   58 JAN 05,1975
   8,367     702,055                     00   59 JAN 05,1975
   8,384     702,031                     01   00 JAN 05,1975
   8,400     702,031                     01   01 JAN 05,1975   END TEST
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                       429 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-CG

DATE OF JOB
JANUARY 04, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT C-B
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO,219 WITH 1400 LB ELEMENT

GAUGE DEPTH WAS 2131 FT, INSIDE DP

PACKER SET AT 2120 FT

GROUND LEVEL REFERENCE IS 7036 FT

TEST INTERVAL WAS FROM 2120 FT

PACKER DEPTH TO 2170 FT

II B-1488

537 POINTS REPORTED THIS JOB

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-GG                                                    JANUARY 04, 1975

GAUGE/RUN NUMBER                                                    DATE OF RUN
214  DST-34  INITIAL OPEN

                                   SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA    PRESSURE                       TIME     DATE              COMMENTS
    TIME      (PSI)                        HR MIN

    0,000     43,446                        16  02 JAN 04,1975   INITIAL OPEN
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                          1 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-GG

DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
219 DST-34 SHUTIN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	43,446	16	04	JAN 04,1975	INITIAL CLOSE
,017	263,451	16	05	JAN 04,1975	
,033	497,729	16	06	JAN 04,1975	
,050	563,892	16	07	JAN 04,1975	
,067	602,654	16	08	JAN 04,1975	
,083	650,275	16	09	JAN 04,1975	
,100	656,508	16	10	JAN 04,1975	
,117	677,803	16	11	JAN 04,1975	
,133	695,934	16	12	JAN 04,1975	
,150	705,680	16	13	JAN 04,1975	
,167	712,673	16	14	JAN 04,1975	
,183	717,641	16	15	JAN 04,1975	
,200	721,533	16	16	JAN 04,1975	
,217	724,602	16	17	JAN 04,1975	
,233	727.133	16	18	JAN 04,1975	
,250	729,285	16	19	JAN 04,1975	
,267	731,183	16	20	JAN 04,1975	
,283	732,924	16	21	JAN 04,1975	
,300	734,506	16	22	JAN 04,1975	
,317	735,772	16	23	JAN 04,1975	
,333	737,069	16	24	JAN 04,1975	
,350	738,366	16	25	JAN 04,1975	
,367	739,505	16	26	JAN 04,1975	
,383	740,613	16	27	JAN 04,1975	
,400	741,657	16	28	JAN 04,1975	
,417	742,543	16	29	JAN 04,1975	
,433	743,524	16	30	JAN 04,1975	
,450	744,315	16	31	JAN 04,1975	
,467	745,264	16	32	JAN 04,1975	
,483	746,024	16	33	JAN 04,1975	
,500	746,846	16	34	JAN 04,1975	END SHUT-IN

31 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-GG

DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0,000	747,056	16	37	JAN 04,1975	START FINAL
,016	86,856	16	38	JAN 04,1975	FLOW
,033	85,593	16	39	JAN 04,1975	
,049	109,288	16	40	JAN 04,1975	
,066	132,383	16	41	JAN 04,1975	
,082	157,216	16	42	JAN 04,1975	
,098	176,804	16	43	JAN 04,1975	
,115	196,329	16	44	JAN 04,1975	
,131	214,818	16	45	JAN 04,1975	
,148	231,968	16	46	JAN 04,1975	
,164	247,662	16	47	JAN 04,1975	
,180	263,451	16	48	JAN 04,1975	
,197	278,956	16	49	JAN 04,1975	
,213	293,574	16	50	JAN 04,1975	
,230	307,307	16	51	JAN 04,1975	
,246	319,869	16	52	JAN 04,1975	
,262	331,577	16	53	JAN 04,1975	
,279	346,195	16	54	JAN 04,1975	
,295	357,681	16	55	JAN 04,1975	
,312	369,231	16	56	JAN 04,1975	
,328	379,894	16	57	JAN 04,1975	
,345	389,893	16	58	JAN 04,1975	
,361	402,233	16	59	JAN 04,1975	
,377	411,599	17	00	JAN 04,1975	
,394	424,383	17	01	JAN 04,1975	
,410	430,553	17	02	JAN 04,1975	
,427	439,729	17	03	JAN 04,1975	
,443	448,430	17	04	JAN 04,1975	
,459	456,911	17	05	JAN 04,1975	
,476	465,201	17	06	JAN 04,1975	
,492	473,175	17	07	JAN 04,1975	
,509	480,642	17	08	JAN 04,1975	
,525	488,078	17	08	JAN 04,1975	
,541	495,577	17	09	JAN 04,1975	
,558	502,538	17	10	JAN 04,1975	
,574	509,310	17	11	JAN 04,1975	
,591	515,765	17	12	JAN 04,1975	
,607	522,156	17	13	JAN 04,1975	
,623	528,516	17	14	JAN 04,1975	
,640	534,782	17	15	JAN 04,1975	

JOB NUMBER
BPG-11210-GG

DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
,656	540,382	17	16	JAN 04,1975	
,673	545,825	17	17	JAN 04,1975	
,689	551,046	17	18	JAN 04,1975	
,705	555,950	17	19	JAN 04,1975	
,722	560,886	17	20	JAN 04,1975	
,738	565,696	17	21	JAN 04,1975	
,755	570,410	17	22	JAN 04,1975	
,771	574,935	17	23	JAN 04,1975	
,787	579,112	17	24	JAN 04,1975	
,804	583,130	17	25	JAN 04,1975	
,820	587,149	17	26	JAN 04,1975	
,837	590,978	17	27	JAN 04,1975	
,853	594,490	17	28	JAN 04,1975	
,870	598,129	17	29	JAN 04,1975	
,886	601,198	17	30	JAN 04,1975	
,902	605,058	17	31	JAN 04,1975	
,919	608,349	17	32	JAN 04,1975	
,935	611,514	17	33	JAN 04,1975	
,952	614,715	17	34	JAN 04,1975	
,968	617,567	17	35	JAN 04,1975	
,984	588,763	17	36	JAN 04,1975	
1,001	623,145	17	37	JAN 04,1975	
1,017	625,712	17	38	JAN 04,1975	
1,034	628,247	17	39	JAN 04,1975	
1,050	630,655	17	40	JAN 04,1975	
1,066	632,842	17	41	JAN 04,1975	
1,083	634,997	17	42	JAN 04,1975	
1,099	637,120	17	43	JAN 04,1975	
1,116	638,958	17	44	JAN 04,1975	
1,132	641,113	17	45	JAN 04,1975	
1,148	642,920	17	46	JAN 04,1975	
1,165	644,631	17	47	JAN 04,1975	
1,181	646,342	17	48	JAN 04,1975	
1,198	647,959	17	49	JAN 04,1975	
1,214	649,512	17	50	JAN 04,1975	
1,230	651,001	17	51	JAN 04,1975	
1,247	652,522	17	52	JAN 04,1975	
1,263	653,917	17	53	JAN 04,1975	
1,280	655,248	17	54	JAN 04,1975	
1,296	656,610	17	55	JAN 04,1975	

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-GG                                                   JANUARY 04, 1975

GAUGE/RUN NUMBER                                                    DATE OF RUN
219  DST-34  FINAL FLOW

                               SPERRY-SUN
                PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA    PRESSURE                      TIME      DATE             COMMENTS
    TIME      (PSI)                       HR MIN

    1,312     657,910                     17   56 JAN 04,1975
    1,329     659,082                     17   57 JAN 04,1975
    1,345     660,191                     17   58 JAN 04,1975
    1,362     661,301                     17   59 JAN 04,1975
    1,378     662,315                     18   00 JAN 04,1975
    1,395     663,360                     18   01 JAN 04,1975
    1,411     664,279                     18   02 JAN 04,1975
    1,427     665,198                     18   03 JAN 04,1975
    1,444     666,149                     18   04 JAN 04,1975
    1,460     667,068                     18   05 JAN 04,1975
    1,477     667,987                     18   06 JAN 04,1975
    1,493     668,780                     18   07 JAN 04,1975
    1,509     669,572                     18   08 JAN 04,1975
    1,526     670,427                     18   09 JAN 04,1975
    1,542     671,156                     18   10 JAN 04,1975
    1,559     671,822                     18   11 JAN 04,1975
    1,575     672,519                     18   11 JAN 04,1975
    1,591     673,216                     18   12 JAN 04,1975
    1,608     673,818                     18   13 JAN 04,1975
    1,624     674,484                     18   14 JAN 04,1975
    1,641     675,118                     18   15 JAN 04,1975
    1,657     675,720                     18   16 JAN 04,1975
    1,673     676,259                     18   17 JAN 04,1975
    1,690     676,861                     18   18 JAN 04,1975
    1,706     677,431                     18   19 JAN 04,1975
    1,723     678,002                     18   20 JAN 04,1975
    1,739     678,477                     18   21 JAN 04,1975
    1,755     679,016                     18   22 JAN 04,1975
    1,772     679,491                     18   23 JAN 04,1975
    1,788     679,998                     18   24 JAN 04,1975
    1,805     680,473                     18   25 JAN 04,1975
    1,821     681,012                     18   26 JAN 04,1975
    1,837     681,488                     18   27 JAN 04,1975
    1,854     681,931                     18   28 JAN 04,1975
    1,870     682,375                     18   29 JAN 04,1975
    1,887     682,882                     18   30 JAN 04,1975
    1,903     683,326                     18   31 JAN 04,1975
    1,920     683,738                     18   32 JAN 04,1975
    1,936     684,213                     18   33 JAN 04,1975
    1,952     684,657                     18   34 JAN 04,1975
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JOB NUMBER                                                                  DATE OF JOB
SPG-11210-GG                                                          JANUARY 04, 1975

GAUGE/RUN NUMBER                                                            DATE OF RUN
219  DST-34  FINAL FLOW

                                      SPERRY-SUN
                       PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA    PRESSURE                     TIME       DATE                 COMMENTS
    TIME      (PSI)                      HR MIN

    1,969    685,132                     18  35 JAN 04,1975
    1,985    685,544                     18  36 JAN 04,1975
    2,002    685,956                     18  37 JAN 04,1975
    2,018    686,336                     18  38 JAN 04,1975
    2,034    686,717                     18  39 JAN 04,1975
    2,051    687,033                     18  40 JAN 04,1975
    2,067    687,509                     18  41 JAN 04,1975
    2,084    687,857                     18  42 JAN 04,1975
    2,100    688,206                     18  43 JAN 04,1975
    2,116    688,555                     18  44 JAN 04,1975
    2,133    688,967                     18  45 JAN 04,1975
    2,149    689,315                     18  46 JAN 04,1975
    2,166    689,632                     18  47 JAN 04,1975
    2,182    690,044                     18  48 JAN 04,1975
    2,198    690,361                     18  49 JAN 04,1975
    2,215    690,805                     18  50 JAN 04,1975
    2,231    691,058                     18  51 JAN 04,1975
    2,248    691,343                     18  52 JAN 04,1975
    2,264    691,724                     18  53 JAN 04,1975
    2,280    692,041                     18  54 JAN 04,1975
    2,297    692,358                     18  55 JAN 04,1975
    2,313    692,674                     18  56 JAN 04,1975
    2,330    692,991                     18  57 JAN 04,1975
    2,346    693,372                     18  58 JAN 04,1975
    2,362    693,720                     18  59 JAN 04,1975
    2,379    694,037                     19  00 JAN 04,1975
    2,395    694,322                     19  01 JAN 04,1975
    2,412    694,703                     19  02 JAN 04,1975
    2,428    695,083                     19  03 JAN 04,1975
    2,444    695,241                     19  04 JAN 04,1975
    2,461    695,558                     19  05 JAN 04,1975
    2,477    695,812                     19  06 JAN 04,1975
    2,494    696,065                     19  07 JAN 04,1975
    2,510    696,351                     19  08 JAN 04,1975
    2,527    696,572                     19  09 JAN 04,1975
    2,543    696,921                     19  10 JAN 04,1975
    2,559    697,175                     19  11 JAN 04,1975
    2,576    697,396                     19  12 JAN 04,1975
    2,592    697,713                     19  13 JAN 04,1975
    2,609    698,442                     19  14 JAN 04,1975
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JOB NUMBER                                                      DATE OF JOB
SPG-11210-GG                                                JANUARY 04, 1975

GAUGE/RUN NUMBER                                                DATE OF RUN
219  DST-34  FINAL FLOW

                                 SPERRY-SUN
                 PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA    PRESSURE                    TIME      DATE             COMMENTS
   TIME      (PSI)                     HR MIN

   2,625    699,266                    19   14 JAN 04,1975
   2,641    699,742                    19   15 JAN 04,1975
   2,658    700,470                    19   16 JAN 04.1975
   2,674    700,914                    19   17 JAN 04,1975
   2,691    701,453                    19   18 JAN 04,1975
   2,707    702,118                    19   19 JAN 04,1975
   2,723    703,259                    19   20 JAN 04,1975
   2,740    706.397                    19   21 JAN 04,1975
   2,756    703,101                    19   22 JAN 04,1975
   2,773    703,576                    19   23 JAN 04,1975
   2,789    703,956                    19   24 JAN 04,1975
   2,805    704,305                    19   25 JAN 04,1975
   2,822    704,717                    19   26 JAN 04,1975
   2,838    705,224                    19   27 JAN 04,1975
   2,855    705,636                    19   28 JAN 04,1975
   2,871    705,921                    19   29 JAN 04,1975
   2,887    706,302                    19   30 JAN 04,1975
   2,904    706.650                    19   31 JAN 04,1975
   2,920    706,587                    19   32 JAN 04,1975
   2,937    706,935                    19   33 JAN 04,1975
   2,953    707,189                    19   34 JAN 04,1975
   2,969    713,781                    19   35 JAN 04,1975
   2,986    707,791                    19   36 JAN 04,1975
   3.002    707,886                    19   37 JAN 04,1975
   3.019    707,886                    19   38 JAN 04,1975
   3,035    708,298                    19   39 JAN 04,1975
   3,052    708,615                    19   40 JAN 04,1975
   3.068    708,773                    19   41 JAN 04,1975
   3,084    709,851                    19   42 JAN 04,1975
   3,101    706,270                    19   43 JAN 04,1975
   3,117    707,854                    19   44 JAN 04,1975
   3,134    710,073                    19   45 JAN 04,1975
   3,150    710,168                    19   46 JAN 04,1975
   3,166    710,390                    19   47 JAN 04,1975
   3,183    710,802                    19   48 JAN 04,1975
   3,199    710,897                    19   49 JAN 04,1975
   3.216    710,865                    19   50 JAN 04,1975
   3.232    711,119                    19   51 JAN 04,1975
   3.248    711,372                    19   52 JAN 04,1975
   3,265    712,323                    19   53 JAN 04,1975
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JOB NUMBER
SPG-11210-GG

DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
3,281	717,488	19	54	JAN 04,1975	
3,298	716,443	19	55	JAN 04,1975	
3,314	715,619	19	56	JAN 04,1975	
3,330	721,640	19	57	JAN 04,1975	
3,347	737,422	19	58	JAN 04,1975	
3,363	748,229	19	59	JAN 04,1975	
3,380	742,809	20	00	JAN 04,1975	START JETTING
3,396	741,383	20	01	JAN 04,1975	AT 8 GPM
3,412	710,707	20	02	JAN 04,1975	
3,429	694,544	20	03	JAN 04,1975	
3,445	673,787	20	04	JAN 04,1975	
3,462	666,910	20	05	JAN 04,1975	
3,478	663,075	20	06	JAN 04,1975	
3,494	660,572	20	07	JAN 04,1975	
3,511	658,227	20	08	JAN 04,1975	
3,527	656,167	20	09	JAN 04,1975	
3,544	654,677	20	10	JAN 04,1975	
3,560	653,346	20	11	JAN 04,1975	
3,577	652,459	20	12	JAN 04,1975	
3,593	651,508	20	13	JAN 04,1975	
3,609	650,684	20	14	JAN 04,1975	
3,626	649,955	20	15	JAN 04,1975	
3,642	649,290	20	16	JAN 04,1975	
3,659	648,656	20	17	JAN 04,1975	
3,675	647,578	20	17	JAN 04,1975	
3,691	646,913	20	18	JAN 04,1975	
3,708	646,184	20	19	JAN 04,1975	
3,724	645,487	20	20	JAN 04,1975	
3,741	644,790	20	21	JAN 04,1975	
3,757	644,029	20	22	JAN 04,1975	
3,773	643,047	20	23	JAN 04,1975	
3,790	642,096	20	24	JAN 04,1975	
3,806	640,828	20	25	JAN 04,1975	
3,823	640,828	20	26	JAN 04,1975	
3,839	642,635	20	27	JAN 04,1975	
3,855	643,300	20	28	JAN 04,1975	
3,872	644,124	20	29	JAN 04,1975	
3,888	644,251	20	30	JAN 04,1975	
3,905	643,997	20	31	JAN 04,1975	
3,921	643,617	20	32	JAN 04,1975	

JOB NUMBER
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DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
214 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
3,937	643,142	20	33	JAN 04,1975	
3,954	642,952	20	34	JAN 04,1975	
3,970	642,920	20	35	JAN 04,1975	
3,987	642,698	20	36	JAN 04,1975	
4,003	642,508	20	37	JAN 04,1975	
4,019	642,508	20	38	JAN 04,1975	
4,036	642,476	20	39	JAN 04,1975	
4,052	642,381	20	40	JAN 04,1975	
4,069	642,508	20	41	JAN 04,1975	
4,085	639,941	20	42	JAN 04,1975	
4,101	639,085	20	43	JAN 04,1975	
4,118	640,385	20	44	JAN 04,1975	
4,134	640,670	20	45	JAN 04,1975	
4,151	641,082	20	46	JAN 04,1975	
4,167	641,177	20	47	JAN 04,1975	
4,184	641,621	20	48	JAN 04,1975	
4,200	641,874	20	49	JAN 04,1975	
4,216	641,747	20	50	JAN 04,1975	
4,233	641,589	20	51	JAN 04,1975	
4,249	641,621	20	52	JAN 04,1975	
4,266	641,747	20	53	JAN 04,1975	
4,282	641,589	20	54	JAN 04,1975	
4,298	641,557	20	55	JAN 04,1975	
4,315	641,621	20	56	JAN 04,1975	
4,331	641,716	20	57	JAN 04,1975	
4,348	641,937	20	58	JAN 04,1975	
4,364	634,078	20	59	JAN 04,1975	
4,380	633,508	21	00	JAN 04,1975	END JETTING
4,397	644,346	21	01	JAN 04,1975	
4,413	653,441	21	02	JAN 04,1975	
4,430	662,600	21	03	JAN 04,1975	
4,446	671,251	21	04	JAN 04,1975	
4,462	679,491	21	05	JAN 04,1975	
4,479	694,671	21	06	JAN 04,1975	
4,495	701,294	21	07	JAN 04,1975	
4,512	707,981	21	08	JAN 04,1975	
4,528	714,256	21	09	JAN 04,1975	
4,544	719,992	21	10	JAN 04,1975	
4,561	725,538	21	11	JAN 04,1975	
4,577	730,799	21	12	JAN 04,1975	

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219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
4,594	735,996	21	13	JAN 04,1975	
4.610	738,309	21	14	JAN 04,1975	
4,758	746,137	21	22	JAN 04,1975	
4,774	750,510	21	23	JAN 04,1975	
4,791	752,158	21	24	JAN 04,1975	
4,807	755,517	21	25	JAN 04,1975	
4,823	760,113	21	26	JAN 04,1975	
4,840	763,979	21	27	JAN 04,1975	
4,856	765,342	21	28	JAN 04,1975	
4.873	771,046	21	29	JAN 04,1975	
4,889	774,976	21	30	JAN 04,1975	
4,905	778,747	21	31	JAN 04,1975	
4,922	782,264	21	32	JAN 04,1975	
4,938	785,814	21	33	JAN 04,1975	
4,955	789,173	21	34	JAN 04,1975	
4,971	792.310	21	35	JAN 04,1975	
4,987	795,384	21	36	JAN 04,1975	
5.004	798.332	21	37	JAN 04,1975	
5,020	800.962	21	38	JAN 04,1975	
5,037	803,624	21	39	JAN 04,1975	
5,053	805.240	21	40	JAN 04,1975	
5.069	807.902	21	41	JAN 04,1975	
5,086	809,804	21	42	JAN 04,1975	
5,102	811.515	21	43	JAN 04,1975	
5.119	813,226	21	44	JAN 04,1975	
5.135	815,001	21	45	JAN 04,1975	
5.151	815,952	21	46	JAN 04,1975	
5,168	817,568	21	47	JAN 04,1975	
5,184	820,008	21	48	JAN 04,1975	
5,201	821,276	21	49	JAN 04,1975	
5,217	821,878	21	50	JAN 04,1975	
5.234	823,779	21	51	JAN 04,1975	
5,250	824,920	21	52	JAN 04,1975	
5,266	826,188	21	53	JAN 04,1975	
5,283	827,361	21	54	JAN 04,1975	
5.299	829,008	21	55	JAN 04,1975	
5,316	830,371	21	56	JAN 04,1975	
5,332	831,575	21	57	JAN 04,1975	
5,348	833,192	21	58	JAN 04,1975	
5,365	834,142	21	59	JAN 04,1975	

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DATE OF JOB
JANUARY 04, 1975

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219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,381	835,220	22 00	JAN 04,1975	
5,398	835,885	22 01	JAN 04,1975	
5,414	836,963	22 02	JAN 04,1975	
5,430	838,262	22 03	JAN 04,1975	
5,447	839,150	22 04	JAN 04,1975	
5,463	839,498	22 05	JAN 04,1975	
5,480	840,893	22 06	JAN 04,1975	
5,496	841,780	22 07	JAN 04,1975	
5,512	842,572	22 08	JAN 04,1975	
5,529	843,364	22 09	JAN 04,1975	
5,545	844,062	22 10	JAN 04,1975	
5,562	844,727	22 11	JAN 04,1975	
5,578	845,424	22 12	JAN 04,1975	
5,594	845,995	22 13	JAN 04,1975	
5,611	846,692	22 14	JAN 04,1975	
5,627	847,294	22 15	JAN 04,1975	
5,644	847,928	22 16	JAN 04,1975	
5,660	848,562	22 17	JAN 04,1975	
5,676	849,005	22 18	JAN 04,1975	
5,693	849,671	22 19	JAN 04,1975	
5,709	850,305	22 20	JAN 04,1975	DOWN ANNULUS
5,726	850,780	22 21	JAN 04,1975	WITH 60 GPM
5,742	851,287	22 22	JAN 04,1975	
5,759	851,604	22 23	JAN 04,1975	
5,775	852,238	22 23	JAN 04,1975	
5,791	852,682	22 24	JAN 04,1975	
5,808	853,093	22 25	JAN 04,1975	
5,824	853,601	22 26	JAN 04,1975	
5,841	854,076	22 27	JAN 04,1975	
5,857	854,425	22 28	JAN 04,1975	
5,873	854,773	22 29	JAN 04,1975	
5,890	855,280	22 30	JAN 04,1975	
5,906	855,629	22 31	JAN 04,1975	
5,923	856,072	22 32	JAN 04,1975	
5,939	856,484	22 33	JAN 04,1975	
5,955	856,801	22 34	JAN 04,1975	
5,972	857,182	22 35	JAN 04,1975	
5,988	857,499	22 36	JAN 04,1975	
6,005	857,879	22 37	JAN 04,1975	
6,021	858,227	22 38	JAN 04,1975	

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6,037	858,449	22	39	JAN 04,1975	
6,054	858,893	22	40	JAN 04,1975	
6,070	859,273	22	41	JAN 04,1975	
6,087	859,622	22	42	JAN 04,1975	
6,103	859,844	22	43	JAN 04,1975	
6,119	860,256	22	44	JAN 04,1975	
6,136	860,573	22	45	JAN 04,1975	
6,152	860,889	22	46	JAN 04,1975	
6,169	861,048	22	47	JAN 04,1975	
6,185	861,492	22	48	JAN 04,1975	
6,201	861,777	22	49	JAN 04,1975	
6,218	862,062	22	50	JAN 04,1975	
6,234	862,316	22	51	JAN 04,1975	
6,251	862,696	22	52	JAN 04,1975	
6,267	862,981	22	53	JAN 04,1975	
6,283	863,203	22	54	JAN 04,1975	
6,300	863,425	22	55	JAN 04,1975	
6,316	863,710	22	56	JAN 04,1975	
6,333	864,027	22	57	JAN 04,1975	
6,349	864,185	22	58	JAN 04,1975	
6,366	864,375	22	59	JAN 04,1975	
6,382	864,692	23	00	JAN 04,1975	
6,398	864,978	23	01	JAN 04,1975	
6,415	865,199	23	02	JAN 04,1975	
6,431	865,390	23	03	JAN 04,1975	
6,448	865,643	23	04	JAN 04,1975	
6,464	865,928	23	05	JAN 04,1975	
6,480	866,150	23	06	JAN 04,1975	
6,497	866,309	23	07	JAN 04,1975	
6,513	866,625	23	08	JAN 04,1975	
6,530	866,879	23	09	JAN 04,1975	
6,546	867,069	23	10	JAN 04,1975	
6,562	867,259	23	11	JAN 04,1975	
6,579	867,481	23	12	JAN 04,1975	
6,595	867,766	23	13	JAN 04,1975	
6,612	867,956	23	14	JAN 04,1975	
6,628	868,115	23	15	JAN 04,1975	
6,644	868,400	23	16	JAN 04,1975	
6,661	868,590	23	17	JAN 04,1975	
6,677	868,780	23	18	JAN 04,1975	

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DATE OF JOB
JANUARY 04, 1975

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219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
6,694	868,971	23	19	JAN 04,1975	
6,710	869,224	23	20	JAN 04,1975	START DECLINE
6,726	869,383	23	21	JAN 04,1975	OF INJECTION
6,743	869,478	23	22	JAN 04,1975	IN ANNULUS
6,759	869,795	23	23	JAN 04,1975	
6,776	869,985	23	24	JAN 04,1975	
6,792	870,175	23	25	JAN 04,1975	
6,808	870,270	23	26	JAN 04,1975	
6,825	870,492	23	26	JAN 04,1975	
6,841	870,777	23	27	JAN 04,1975	
6,858	870,967	23	28	JAN 04,1975	
6,874	871,126	23	29	JAN 04,1975	
6,891	871,316	23	30	JAN 04,1975	
6,907	871,474	23	31	JAN 04,1975	
6,923	871,569	23	32	JAN 04,1975	
6,940	871,823	23	33	JAN 04,1975	
6,956	872,013	23	34	JAN 04,1975	
6,973	872,266	23	35	JAN 04,1975	
6,989	872,362	23	36	JAN 04,1975	
7,005	872,552	23	37	JAN 04,1975	
7,022	872,678	23	38	JAN 04,1975	
7,038	872,869	23	39	JAN 04,1975	
7,055	873,027	23	40	JAN 04,1975	END DECLINE
7,071	873,185	23	41	JAN 04,1975	
7,087	873,376	23	42	JAN 04,1975	
7,104	873,566	23	43	JAN 04,1975	
7,120	873,724	23	44	JAN 04,1975	
7,137	873,851	23	45	JAN 04,1975	DOWN DRILL
7,153	874,009	23	46	JAN 04,1975	PIPE WITH 2GPM
7,169	874,200	23	47	JAN 04,1975	
7,186	874,928	23	48	JAN 04,1975	
7,202	875,594	23	49	JAN 04,1975	
7,219	876,640	23	50	JAN 04,1975	
7,235	877,400	23	51	JAN 04,1975	
7,251	878,129	23	52	JAN 04,1975	
7,268	878,478	23	53	JAN 04,1975	
7,284	879,397	23	54	JAN 04,1975	
7,301	879,302	23	55	JAN 04,1975	
7,317	879,143	23	56	JAN 04,1975	
7,333	878,826	23	57	JAN 04,1975	

JOB NUMBER
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DATE OF JOB
JANUARY 04, 1975

GAUGE/RUN NUMBER
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
7,350	878,858	23	58	JAN 04,1975	
7,366	878,858	23	59	JAN 04,1975	
7,383	878,858	00	00	JAN 05,1975	
7,399	878,795	00	01	JAN 05,1975	
7,416	878,922	00	02	JAN 05,1975	
7,432	878,985	00	03	JAN 05,1975	
7,448	878,890	00	04	JAN 05,1975	
7,465	878,826	00	05	JAN 05,1975	DOWN DP WITH
7,481	878,985	00	06	JAN 05,1975	5 GPM
7,498	879,080	00	07	JAN 05,1975	
7,514	879,207	00	08	JAN 05,1975	OVERFLOW START
7,530	880,538	00	09	JAN 05,1975	AT 3,5 GPM
7,547	892,865	00	10	JAN 05,1975	
7,563	892,739	00	11	JAN 05,1975	
7,580	892,834	00	12	JAN 05,1975	
7,596	892,422	00	13	JAN 05,1975	
7,612	892,707	00	14	JAN 05,1975	
7,629	892,707	00	15	JAN 05,1975	
7,645	892,168	00	16	JAN 05,1975	
7,662	892,263	00	17	JAN 05,1975	
7,678	892,612	00	18	JAN 05,1975	
7,694	892,549	00	19	JAN 05,1975	
7,711	892,485	00	20	JAN 05,1975	
7,727	892,454	00	21	JAN 05,1975	
7,744	892,295	00	22	JAN 05,1975	
7,760	892,263	00	23	JAN 05,1975	
7,776	892,232	00	24	JAN 05,1975	
7,793	892,168	00	25	JAN 05,1975	START DECLINE
7,809	891,154	00	26	JAN 05,1975	
7,826	890,774	00	27	JAN 05,1975	
7,842	890,203	00	28	JAN 05,1975	
7,858	889,538	00	29	JAN 05,1975	
7,875	888,904	00	29	JAN 05,1975	
7,891	888,619	00	30	JAN 05,1975	
7,908	887,732	00	31	JAN 05,1975	
7,924	887,383	00	32	JAN 05,1975	
7,941	887,193	00	33	JAN 05,1975	
7,957	887,003	00	34	JAN 05,1975	
7,973	886,813	00	35	JAN 05,1975	
7,990	886,717	00	36	JAN 05,1975	

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-GO                                                    JANUARY 04, 1975

GAUGE/RUN NUMBER                                                    DATE OF RUN
219  DST-34  FINAL FLOW

                                  SPERRY-SUN
                 PRECISION SUBSURFACE PRESSURE GAUGE REPORT


     DELTA    PRESSURE                      TIME     DATE               COMMENTS
     TIME      (PSI)                       HR MIN

     8,006    886,622                      00  37 JAN 05,1975
     8,023    886,527                      00  38 JAN 05,1975
     8,039    886,527                      00  39 JAN 05,1975
     8,055    886,401                      00  40 JAN 05,1975
     8,072    886,401                      00  41 JAN 05,1975
     8,088    886,337                      00  42 JAN 05,1975
     8,105    886,401                      00  43 JAN 05,1975
     8,121    886,337                      00  44 JAN 05,1975
     8,137    886,305                      00  45 JAN 05,1975
     8,154    886,147                      00  46 JAN 05,1975
     8,170    886,179                      00  47 JAN 05,1975
     8,187    886,305                      00  48 JAN 05,1975
     8,203    886,242                      00  49 JAN 05,1975
     8,219    886,242                      00  50 JAN 05,1975
     8,236    886,337                      00  51 JAN 05,1975
     8,252    886,401                      00  52 JAN 05,1975
     8,269    886,464                      00  53 JAN 05,1975
     8,285    886,432                      00  54 JAN 05,1975
     8,301    886,432                      00  55 JAN 05,1975   START DECLINE
     8,318    886,464                      00  56 JAN 05,1975
     8,334    886,464                      00  57 JAN 05,1975
     8,351    886,527                      00  58 JAN 05,1975
     8,367    886,749                      00  59 JAN 05,1975
     8,383    886,781                      01  00 JAN 05,1975
     8,400    886,876                      01  01 JAN 05,1975   END TEST
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                        505 POINTS REPORTED THIS RUN

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JOHNSTON
Schlumberger

technical report

II B-1504

F.R. #09087 C

COMPANY ATLANTIC-RICHFIELD COMPANY
WELL FEDERAL S.G. #17
TEST NO. 35
COUNTY RIO BLANCO
STATE COLORADO

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	2012	-	-
CLOSED FOR INITIAL SHUT-IN	2014	-	-
FINISHED SHUT-IN	2043	-	-
RE-OPENED TOOL	2045	-	-
CLOSED TOOL	2300	-	-
PULLED PACKER LOOSE	2303	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested GREEN RIVER
Elevation 7036 Ft.
Net Productive Interval 50 Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 2270 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 297' I.D. -
Drill Pipe Length 1870' I.D. -
Packer Depth(s) 2216 & 2220 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure P.S.I.G. at Surface
Recovery: Cu. Ft. Gas
cc. Oil
cc. Water
cc. Mud
Tot. Liquid cc.
Gravity °API @ °F.
Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: DOUBLE-PIN SUB BETWEEN DRILL COLLARS AND SPERRY-SUN CARRIER LEAKED AND PICKED UP FLUID.

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH
Well FEDERAL S.G. #17 Location 436'FWL 181'FSL SEC.16-3S-96W
Test Interval 2220' TO 2270' Test # 35 Date 1-6-75

II B-1505

County RIO BLANCO State COLORADO
Technician BURNS(VERNAL) Test Approved By MR. CHARLES BERGONZINI

Field Report No. 09027 C
No. Reports Requested 14(13x)

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4633 N PRESSURE(P.S.I.G.)	INSTRUMENT #4097 N PRESSURE(P.S.I.G.
INITIAL HYDROSTATIC	1	-		746.0	755.3
OPENED TOOL	2	2012	0	131.0	130.3
			2	131.0	134.6
CLOSED FOR INITIAL SHUT-IN	3	2015	3	131.0	136.0
			4	186.1	192.3
			6	190.0	195.1
			8	192.7	196.5
			10	195.3	199.3
			12	197.9	200.7
			14	199.2	203.5
			16	201.8	204.9
			18	203.1	206.3
			20	205.8	209.2
			22	207.1	210.6
			24	209.7	213.4
			26	211.0	214.8
			28	213.6	217.6
			30	214.9	219.0
			32	217.6	221.8
INITIAL SHUT-IN - CYCLED TOOL	4	2045	33	217.6	221.8
			34	214.9	219.0
TOOL RE-OPENED - INITIAL FLOW	5	2047	35	188.7	200.7
			36	197.9	202.1
			38	200.5	203.5
			40	201.8	203.5
			42	203.1	206.3
			44	204.5	206.3
			46	205.8	207.8
			48	205.8	207.8
			50	207.1	209.2
			52	208.4	209.2
			54	208.4	210.6
			56	208.4	212.0
			58	209.7	212.0
			60	209.7	213.4
			62	211.0	213.4
			64	211.0	214.8
			66	211.0	214.8
			68	212.3	214.8
			70	212.3	216.2
			72	213.6	216.2
			74	213.6	217.6
			76	214.9	217.6
			78	214.9	219.0
			80	216.3	219.0
			82	217.6	220.4
			84	217.6	220.4
			86	217.6	220.4
			88	217.6	221.8
			90	218.9	221.8
			92	218.9	223.2
			94	220.2	223.2

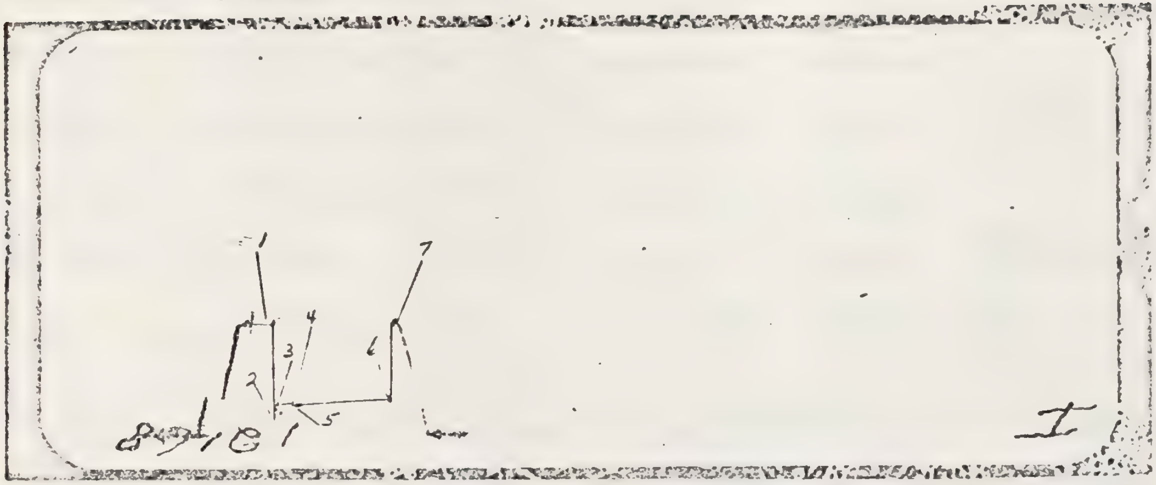
DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4633 N PRESSURE(P.S.I.G.)	INSTRUMENT #4097 N PRESSURE(P.S.I.G.)
			96	220.2	223.2
			98	220.2	223.2
			100	221.5	224.6
			102	221.5	226.1
			104	222.8	226.1
			106	222.8	226.1
			108	224.1	227.5
			110	224.1	227.5
			112	225.4	228.9
			114	225.4	228.9
			116	226.7	230.3
			118	226.7	230.3
			120	226.7	231.7
			122	228.1	231.7
			124	229.4	233.1
			126	229.4	233.1
			128	230.7	233.1
			130	230.7	234.5
			132	230.7	234.5
			134	230.7	234.5
			136	232.0	235.9
			138	232.0	237.3
			140	233.3	237.3
			142	233.3	238.7
			144	233.3	238.7
			146	234.6	238.7
			148	234.6	240.1
			150	235.9	240.1
			152	235.9	240.1
			154	235.9	241.5
			156	237.2	241.5
			158	237.2	242.9
			160	238.5	242.9
			162	238.5	242.9
			164	238.5	244.4
			166	239.9	244.4
FINAL FLOW - CLOSED TOOL, PULLED PACKER LOOSE	6	2300	168	239.9	244.4
FINAL HYDROSTATIC	7	-	-	742.1	755.1

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):	2650#	2600#
DEPTH:	2195'	2221'
INSTRUMENT OPENING:	INSIDE	OUTSIDE

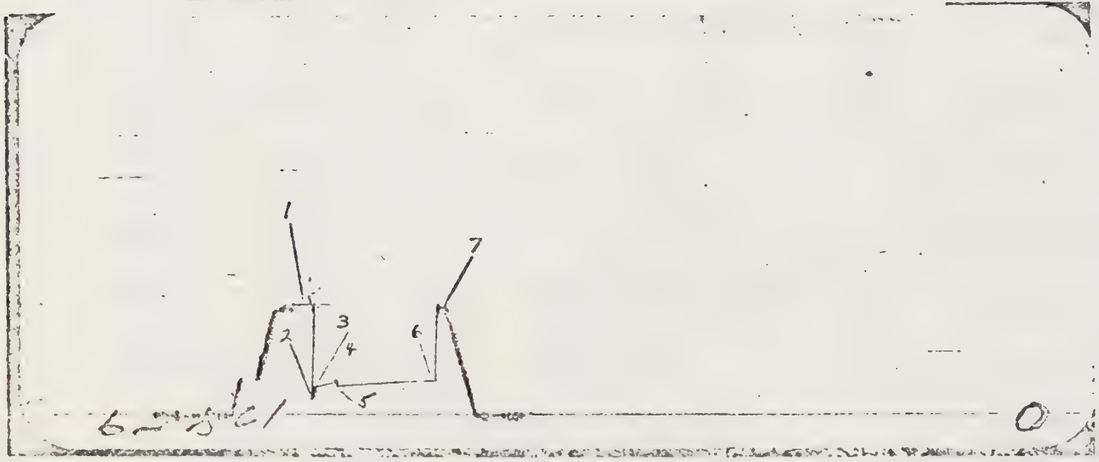
JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09087 C	4633 N
CAPACITY	REPORTS REQUESTED
2650#	14+



JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09087 C	4097 N
CAPACITY	REPORTS REQUESTED
2800#	14+



PRESSURE GAUGE DRILL STEM TEST SHEET

DST#35

Job No SPG-11210 HH Date 1/6/75 Run #1 Office CASPER

Customer ARCO Et AL Location Sorghum Gulch

State Colorado County/[redacted] Rio BLANCO

Well Sorghum Gulch No. 17 Field TRACT Cb

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/[redacted]	1. 1615 hrs.	1/6/75	2.		
Depart: Well/[redacted]	1. 0130 hrs.	1/7/75	2.		0915 Hrs.
Gauge Start in Hole	1. 1656 hrs.	1/6/75	2.		
Gauge Out of Hole	1. 0105 hrs.	1/7/75	2.		8 hrs. 9 min Hrs.

No. Trips 1 Miles 90 Total Mileage 90

Top Gauge # 143 Element # 30949 Range 1000 lbs. Time Mode LOW.

Btm. Gauge # 219 Element # 35788 Range 1400 lbs. Time Mode MIN.

Type Tool — Test Depth 2220'-2270 Zero Point GROUND LEVEL

Packer Depth 2220' Tail Pipe Depth 2270' Top Gauge Depth 2168'

Bottom Hole Temp. — Atmos. Temp. — Bottom Gauge Depth 2230

TIME INFORMATION	Time	Date	PRESSURE INFORMATION (ON DATA SHEET)	
On Bottom	1930	1/6/75	Initial Hydrostatic Mud	
Packer Set	2010	1/6/75	Initial Draw Down	
Initial Open	2012	1/6/75	Initial Build-Up	
Initial Shut-In	2014	1/6/75	Final Flow	
Start Flow	2045	1/6/75	Final Build-Up	
Final Shut-In	2300	1/6/75	Final Hydrostatic Mud	
Packer Unseated	2303	1/6/75	Mud Weight	

TIME OF SURFACE NULLS

Top Gauge 1656 1657 1658 Bottom Gauge 1732 1733 1734

Remarks

Operator

JOB NUMBER
SPG-11210 HH

DATE OF JOB
JANUARY 6,1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT CB
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 143 WITH 1000 LB. ELEMENT

GAUGE DEPTH IS 2168FT. OUTSIDE DRILL PIPE

GAUGE ABOVE PACKER SET AT 2220 FEET

GROUND LEVEL REFERENCE IS 7036 FEET

INITIAL HYDROSTATIC WAS 734.41 PSI

FINAL HYDROSTATIC WAS 735.70 PSI

TEST INTERVAL IS FROM SURFACE TO 2220

FEET (PACKER DEPTH)

II B-1510

168 POINTS REPORTED THIS JOB

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JOB NUMBER                                                          DATE OF JOB
SPG-11210 HH                                                    JANUARY 6,1975

GAUGE/RUN NUMBER                                                    DATE OF RUN
143    RUN=1  INIT, OPEN

                                  SPERRY-SUN
                    PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA   PRESSURE                  TIME     DATE             COMMENTS
    TIME     (PSI)                   HR MIN

    0,000    742,125                 20  12 JAN 06,1975   INITIAL OPEN
     ,017    742,101                 20  13 JAN 06,1975
     ,033    742,220                 20  14 JAN 06,1975   END OPEN
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                         3 POINTS REPORTED THIS RUN

                                  PAGE  2
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JOB NUMBER
SPG-11210 HH

DATE OF JOB
JANUARY 6,1975

GAUGE/RUN NUMBER
143   RUN=1 SHUT IN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	742.220	20	14	JAN 06,1975	INITIAL CLOSE
.017	741.651	20	15	JAN 06,1975	
.033	741.745	20	16	JAN 06,1975	
.050	741.745	20	17	JAN 06,1975	
.067	741.769	20	18	JAN 06,1975	
.083	741.793	20	19	JAN 06,1975	
.100	741.840	20	20	JAN 06,1975	
.117	741.840	20	21	JAN 06,1975	
.133	741.864	20	22	JAN 06,1975	
.150	741.912	20	23	JAN 06,1975	
.167	741.935	20	24	JAN 06,1975	
.183	741.959	20	25	JAN 06,1975	
.200	742.030	20	26	JAN 06,1975	
.217	742.030	20	27	JAN 06,1975	
.233	742.101	20	28	JAN 06,1975	
.250	742.101	20	29	JAN 06,1975	
.267	742.149	20	30	JAN 06,1975	
.283	742.149	20	31	JAN 06,1975	
.300	742.220	20	32	JAN 06,1975	
.317	742.244	20	33	JAN 06,1975	
.333	742.291	20	34	JAN 06,1975	
.350	742.267	20	35	JAN 06,1975	
.367	742.315	20	36	JAN 06,1975	
.383	742.315	20	37	JAN 06,1975	
.400	742.339	20	38	JAN 06,1975	
.417	742.362	20	39	JAN 06,1975	
.433	742.433	20	40	JAN 06,1975	
.450	742.410	20	41	JAN 06,1975	
.467	742.433	20	42	JAN 06,1975	
.483	742.457	20	43	JAN 06,1975	
.500	742.623	20	44	JAN 06,1975	
.517	742.623	20	45	JAN 06,1975	END SHUT IN

32 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210 HH

DATE OF JOB
JANUARY 6,1975

GAUGE/RUN NUMBER
143 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	742.623	20 45	JAN 06,1975	FINAL OPEN
.017	742.267	20 46	JAN 06,1975	
.034	742.457	20 47	JAN 06,1975	
.051	742.718	20 48	JAN 06,1975	
.068	742.694	20 49	JAN 06,1975	
.085	742.789	20 50	JAN 06,1975	
.102	742.766	20 51	JAN 06,1975	
.119	742.813	20 52	JAN 06,1975	
.136	742.837	20 53	JAN 06,1975	
.153	742.837	20 54	JAN 06,1975	
.170	742.860	20 55	JAN 06,1975	
.187	742.908	20 56	JAN 06,1975	
.205	742.932	20 57	JAN 06,1975	
.222	742.932	20 58	JAN 06,1975	
.239	742.979	20 59	JAN 06,1975	
.256	743.003	21 00	JAN 06,1975	
.273	742.979	21 01	JAN 06,1975	
.290	743.027	21 02	JAN 06,1975	
.307	743.027	21 03	JAN 06,1975	
.324	743.050	21 04	JAN 06,1975	
.341	743.121	21 05	JAN 06,1975	
.358	743.145	21 06	JAN 06,1975	
.375	743.145	21 07	JAN 06,1975	
.392	743.193	21 09	JAN 06,1975	
.409	743.240	21 10	JAN 06,1975	
.426	743.240	21 11	JAN 06,1975	
.443	743.264	21 12	JAN 06,1975	
.460	743.264	21 13	JAN 06,1975	
.477	743.287	21 14	JAN 06,1975	
.494	743.264	21 15	JAN 06,1975	
.511	743.287	21 16	JAN 06,1975	
.528	743.287	21 17	JAN 06,1975	
.545	743.406	21 18	JAN 06,1975	
.562	743.406	21 19	JAN 06,1975	
.580	743.382	21 20	JAN 06,1975	
.597	743.406	21 21	JAN 06,1975	
.614	743.406	21 22	JAN 06,1975	
.631	743.430	21 23	JAN 06,1975	
.648	743.477	21 24	JAN 06,1975	
.665	743.691	21 25	JAN 06,1975	

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JOB NUMBER                                                          DATE OF JOB
SPG-11210 HH                                                    JANUARY 6,1975

GAUGE/RUN NUMBER                                                    DATE OF RUN
143    RUN=1 FINAL FLOW

                               SPERRY-SUN
                PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA   PRESSURE                       TIME     DATE              COMMENTS
    TIME     (PSI)                        HR MIN

     ,682    743,477                      21   26 JAN 06,1975
     ,699    743,501                      21   27 JAN 06,1975
     ,716    743,525                      21   28 JAN 06,1975
     ,733    743.548                      21   29 JAN 06,1975
     ,750    743,548                      21   30 JAN 06,1975
     ,767    743,572                      21   31 JAN 06,1975
     ,784    743,572                      21   32 JAN 06,1975
     ,801    743,596                      21   33 JAN 06,1975
     ,818    743,667                      21   34 JAN 06,1975
     ,835    743,643                      21   35 JAN 06,1975
     ,852    743,714                      21   36 JAN 06,1975
     ,869    743.667                      21   37 JAN 06,1975
     ,886    743.714                      21   38 JAN 06,1975
     ,903    743.714                      21   39 JAN 06,1975
     ,920    743.738                      21   40 JAN 06,1975
     ,937    743,786                      21   41 JAN 06,1975
     ,955    743.762                      21   42 JAN 06,1975
     ,972    743.786                      21   43 JAN 06,1975
     ,989    743.833                      21   44 JAN 06,1975
    1,006    743,833                      21   45 JAN 06,1975
    1.023    743,833                      21   46 JAN 06,1975
    1,040    743,857                      21   47 JAN 06,1975
    1,057    743,881                      21   48 JAN 06,1975
    1,074    743.904                      21   49 JAN 06,1975
    1,091    743.928                      21   50 JAN 06,1975
    1,108    743,904                      21   51 JAN 06,1975
    1,125    743,952                      21   52 JAN 06,1975
    1,142    743,952                      21   54 JAN 06,1975
    1,159    743,975                      21   55 JAN 06,1975
    1.176    743.999                      21   56 JAN 06,1975
    1,193    744,023                      21   57 JAN 06,1975
    1,210    743.975                      21   58 JAN 06,1975
    1,227    744.023                      21   59 JAN 06,1975
    1,244    744.023                      22   00 JAN 06,1975
    1,261    744,047                      22   01 JAN 06,1975
    1,278    744,118                      22   02 JAN 06,1975
    1,295    744,118                      22   03 JAN 06,1975
    1,312    744,118                      22   04 JAN 06,1975
    1,330    744.142                      22   05 JAN 06,1975
    1,347    744,142                      22   06 JAN 06,1975
```

JOB NUMBER
SPG-11210 HH

DATE OF JOB
JANUARY 6,1975

GAUGE/RUN NUMBER
143 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,364	744,165	22	07	JAN 06,1975	
1,381	744,189	22	08	JAN 06,1975	
1,398	744.213	22	09	JAN 06,1975	
1,415	744.236	22	10	JAN 06,1975	
1,432	744,236	22	11	JAN 06,1975	
1,449	744,260	22	12	JAN 06,1975	
1,466	744,260	22	13	JAN 06,1975	
1,483	744,284	22	14	JAN 06,1975	
1,500	744,308	22	15	JAN 06,1975	
1,517	744,308	22	16	JAN 06,1975	
1,534	744.355	22	17	JAN 06,1975	
1,551	744,331	22	18	JAN 06,1975	
1,568	744.355	22	19	JAN 06,1975	
1,585	744,379	22	20	JAN 06,1975	
1,602	744.379	22	21	JAN 06,1975	
1,619	744,402	22	22	JAN 06,1975	
1,636	744.426	22	23	JAN 06,1975	
1.653	744.450	22	24	JAN 06,1975	
1,670	744.450	22	25	JAN 06,1975	
1,687	744,426	22	26	JAN 06,1975	
1,704	744.474	22	27	JAN 06,1975	
1,722	744,497	22	28	JAN 06,1975	
1,739	744,474	22	29	JAN 06,1975	
1,756	744.545	22	30	JAN 06,1975	
1,773	744.545	22	31	JAN 06,1975	
1,790	744,545	22	32	JAN 06,1975	
1,807	744,545	22	33	JAN 06,1975	
1,824	744,569	22	34	JAN 06,1975	
1,841	744.592	22	35	JAN 06,1975	
1,858	744,616	22	36	JAN 06,1975	
1,875	744,592	22	37	JAN 06,1975	
1,892	744.640	22	39	JAN 06,1975	
1,909	744.640	22	40	JAN 06,1975	
1,926	744.616	22	41	JAN 06,1975	
1,943	744,663	22	42	JAN 06,1975	
1,960	744,711	22	43	JAN 06,1975	
1,977	744,711	22	44	JAN 06,1975	
1,994	744,711	22	45	JAN 06,1975	
2,011	744.758	22	46	JAN 06,1975	
2,028	744,758	22	47	JAN 06,1975	

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JOB NUMBER                                                        DATE OF JOB
SPG-11210 HH                                                  JANUARY 6,1975

GAUGE/RUN NUMBER                                                 DATE OF RUN
143     RUN=1 FINAL FLOW

                                  SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT

      DELTA    PRESSURE                    TIME     DATE              COMMENTS
      TIME      (PSI)                     HR MIN

      2,045     744,758                   22   48 JAN 06,1975
      2,062     744,782                   22   49 JAN 06,1975
      2.079     744,758                   22   50 JAN 06,1975
      2,097     744.806                   22   51 JAN 06,1975
      2,114     744,806                   22   52 JAN 06,1975
      2,131     744,782                   22   53 JAN 06,1975
      2,148     744,806                   22   54 JAN 06,1975
      2,165     744,877                   22   55 JAN 06,1975
      2,182     744,901                   22   56 JAN 06,1975
      2,199     744,901                   22   57 JAN 06,1975
      2,216     744,924                   22   58 JAN 06,1975
      2,233     744,901                   22   59 JAN 06,1975
      2,250     744,948                   23   00 JAN 06,1975   END TEST




                      133 POINTS REPORTED THIS RUN
```

JOB NUMBER
SPG-11210 HH

DATE OF JOB
JANUARY 6, 197

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG6-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 219 WITH 1400LB. ELEMENT

GAUGE DEPTH IS 2230 FT. INSIDE DRILL PIPE

GAUGE BELOW PACKER SET AT 2220 FEET

GROUND LEVEL REFERENCE IS 7036 FEET

INITIAL HYDROSTATIC IS 762.94 PSI

FINAL HYDROSTITIC IS 764.43 PSI

TEST INTERVAL IS FROM SURFACE TO

2220 FEET (PACKER DEPTH)

170 POINTS REPORTED THIS JOB

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JOB NUMBER                                                                DATE OF JOB
SPG-11210 HH                                                          JANUARY 6, 197

GAUGE/RUN NUMBER                                                          DATE OF RUN
219   RUN=1 INITIAL OPEN

                                   SPERRY-SUN
                    PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                      TIME      DATE              COMMENTS
    TIME      (PSI)                       HR MIN

    0,000     267,150                     20   12 JAN 06,1975    INITIAL OPEN
     ,017     267,435                     20   13 JAN 06,1975
     ,033     268,384                     20   14 JAN 06,1975    END OPEN






                          3 POINTS REPORTED THIS RUN
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JOB NUMBER                                                                   DATE OF JOB
SPG-11210 HH                                                              JANUARY 6, 197

GAUGE/RUN NUMBER                                                             DATE OF RUN
219     RUN=1 SHUT IN

                                   SPERRY-SUN
                    PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA     PRESSURE                     TIME      DATE               COMMENTS
    TIME       (PSI)                      HR MIN

    0,000     268,384                     20   14 JAN 06,1975   INITIAL SHUTIN
     ,016     269,079                     20   15 JAN 06,1975
     ,032     265,347                     20   16 JAN 06,1975
     ,048     274,836                     20   17 JAN 06,1975
     ,065     278,884                     20   18 JAN 06,1975
     ,081     280,655                     20   19 JAN 06,1975
     ,097     282,205                     20   20 JAN 06,1975
     ,113     283,850                     20   21 JAN 06,1975
     ,129     285,336                     20   22 JAN 06,1975
     ,145     286,633                     20   23 JAN 06,1975
     ,161     287,962                     20   24 JAN 06,1975
     ,178     289,100                     20   25 JAN 06,1975
     ,194     290,239                     20   26 JAN 06,1975
     ,210     291,346                     20   27 JAN 06,1975
     ,226     292,421                     20   28 JAN 06,1975
     ,242     293,497                     20   29 JAN 06,1975
     ,258     294,604                     20   30 JAN 06,1975
     ,274     295,616                     20   30 JAN 06,1975
     ,291     296,533                     20   31 JAN 06,1975
     ,307     297,450                     20   32 JAN 06,1975
     ,323     298,462                     20   33 JAN 06,1975
     ,339     299,379                     20   34 JAN 06,1975
     ,355     300,392                     20   35 JAN 06,1975
     ,371     301,372                     20   36 JAN 06,1975
     ,388     302,353                     20   37 JAN 06,1975
     ,404     303,365                     20   38 JAN 06,1975
     ,420     304,408                     20   39 JAN 06,1975
     ,436     305,484                     20   40 JAN 06,1975
     ,452     306,527                     20   41 JAN 06,1975
     ,468     307,666                     20   42 JAN 06,1975
     ,484     308,678                     20   43 JAN 06,1975
     ,501     309,659                     20   44 JAN 06,1975
     ,517     310,702                     20   45 JAN 06,1975   END SHUT IN




                         33 POINTS REPORTED THIS RUN
```

JOB NUMBER
SPG-11210 HH

DATE OF JOB
JANUARY 6, 197

GAUGE/RUN NUMBER
219 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	310,702	20	45	JAN 06,1975	FINAL OPEN
,017	308,931	20	46	JAN 06,1975	
,034	296,027	20	47	JAN 06,1975	
,051	294,445	20	48	JAN 06,1975	
,068	291,124	20	49	JAN 06,1975	
,085	291,915	20	50	JAN 06,1975	
,102	292,484	20	51	JAN 06,1975	
,118	292,769	20	52	JAN 06,1975	
,135	293,971	20	53	JAN 06,1975	
,152	294,857	20	54	JAN 06,1975	
,169	295.394	20	55	JAN 06,1975	
,186	295.900	20	56	JAN 06,1975	
,203	296.343	20	57	JAN 06,1975	
,220	296.786	20	58	JAN 06,1975	
,237	297.165	20	59	JAN 06,1975	
,254	297.545	21	00	JAN 06,1975	
,271	297.956	21	01	JAN 06,1975	
,288	298.336	21	02	JAN 06,1975	
,305	298.684	21	03	JAN 06,1975	
,321	299.158	21	04	JAN 06,1975	
,338	299.569	21	05	JAN 06,1975	
,355	299,917	21	06	JAN 06,1975	
,372	300.233	21	07	JAN 06,1975	
,389	300,581	21	08	JAN 06,1975	
,406	300.929	21	09	JAN 06,1975	
,423	301.246	21	10	JAN 06,1975	
,440	301.530	21	11	JAN 06,1975	
,457	301,846	21	12	JAN 06,1975	
,474	302,194	21	13	JAN 06,1975	
,491	302.511	21	14	JAN 06,1975	
,508	302.764	21	15	JAN 06,1975	
,524	303.112	21	16	JAN 06,1975	
,541	303,396	21	17	JAN 06,1975	
,558	303,681	21	18	JAN 06,1975	
,575	304,029	21	20	JAN 06,1975	
,592	304,345	21	21	JAN 06,1975	
,609	304,661	21	22	JAN 06,1975	
,626	305,009	21	23	JAN 06,1975	
,643	305,357	21	24	JAN 06,1975	
,660	305,674	21	25	JAN 06,1975	

JOB NUMBER
SPG-11210 HH

DATE OF JOB
JANUARY 6, 197

GAUGE/RUN NUMBER
219 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
,677	305,958	21	26	JAN 06,1975	
,694	306,243	21	27	JAN 06,1975	
,711	306.559	21	28	JAN 06,1975	
,727	306,844	21	29	JAN 06,1975	
,744	307,160	21	30	JAN 06,1975	
,761	307,445	21	31	JAN 06,1975	
,778	307,761	21	32	JAN 06,1975	
,795	308.077	21	33	JAN 06,1975	
,812	308,362	21	34	JAN 06,1975	
,829	308,678	21	35	JAN 06,1975	
,846	308,963	21	36	JAN 06,1975	
,863	309.311	21	37	JAN 06,1975	
,880	309.595	21	38	JAN 06,1975	
,897	309,912	21	39	JAN 06,1975	
,914	310.165	21	40	JAN 06,1975	
,930	310,449	21	41	JAN 06,1975	
,947	310,734	21	42	JAN 06,1975	
,964	311,019	21	43	JAN 06,1975	
,981	311,335	21	44	JAN 06,1975	
,998	311,620	21	45	JAN 06,1975	
1,015	311.904	21	46	JAN 06,1975	
1,032	312,221	21	47	JAN 06,1975	
1.049	312.505	21	48	JAN 06,1975	
1,066	312,822	21	49	JAN 06,1975	
1,083	313,169	21	50	JAN 06,1975	
1,100	313.422	21	51	JAN 06,1975	
1,117	313,770	21	52	JAN 06,1975	
1,133	314,087	21	53	JAN 06,1975	
1,150	314.371	21	54	JAN 06,1975	
1,167	314,719	21	55	JAN 06,1975	
1,184	315,036	21	56	JAN 06,1975	
1,201	315,352	21	57	JAN 06,1975	
1,218	315.668	21	58	JAN 06,1975	
1,235	315,984	21	59	JAN 06,1975	
1,252	316,301	22	00	JAN 06,1975	
1,269	316,649	22	01	JAN 06,1975	
1,286	316,965	22	02	JAN 06,1975	
1,303	317,250	22	03	JAN 06,1975	
1,320	317,566	22	04	JAN 06,1975	
1,336	317,914	22	05	JAN 06,1975	

JOB NUMBER
SPG-11210 HH

DATE OF JOB
JANUARY 6, 197

GAUGE/RUN NUMBER
219 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
1,353	318,230	22	06	JAN 06,1975	
1,370	318,546	22	07	JAN 06,1975	
1,387	318,863	22	08	JAN 06,1975	
1,404	319,147	22	09	JAN 06,1975	
1,421	319,495	22	10	JAN 06,1975	
1,438	319,811	22	11	JAN 06,1975	
1,455	320,128	22	12	JAN 06,1975	
1,472	320,412	22	13	JAN 06,1975	
1,489	320,760	22	14	JAN 06,1975	
1,506	321.077	22	15	JAN 06,1975	
1.523	321.424	22	16	JAN 06,1975	
1,539	321.709	22	17	JAN 06,1975	
1,556	322.057	22	18	JAN 06,1975	
1,573	322,278	22	19	JAN 06,1975	
1.590	322.563	22	20	JAN 06,1975	
1,607	322,879	22	21	JAN 06,1975	
1.624	323.132	22	22	JAN 06,1975	
1.641	323,449	22	23	JAN 06,1975	
1,658	323,733	22	24	JAN 06,1975	
1.675	323.986	22	25	JAN 06,1975	
1.692	324.303	22	27	JAN 06,1975	
1,709	324.556	22	28	JAN 06,1975	
1,726	324.809	22	29	JAN 06,1975	
1,742	325,062	22	30	JAN 06,1975	
1,759	325.378	22	31	JAN 06,1975	
1,776	325,631	22	32	JAN 06,1975	
1,793	325.884	22	33	JAN 06,1975	
1,810	326.169	22	34	JAN 06,1975	
1,827	326,422	22	35	JAN 06,1975	
1,844	326,738	22	36	JAN 06,1975	
1,861	327,054	22	37	JAN 06,1975	
1,878	327.339	22	38	JAN 06,1975	
1.895	327,560	22	39	JAN 06,1975	
1,912	327,940	22	40	JAN 06,1975	
1,929	328,098	22	41	JAN 06,1975	
1,945	328.414	22	42	JAN 06,1975	
1,962	328,667	22	43	JAN 06,1975	
1,979	328,984	22	44	JAN 06,1975	
1,996	329,268	22	45	JAN 06,1975	
2.013	329,490	22	46	JAN 06,1975	

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JOB NUMBER                                                    DATE OF JOB
SPG-11210 HH                                              JANUARY 6, 197

GAUGE/RUN NUMBER                                              DATE OF RUN
219    RUN=1    FINAL FLOW

                            SPERRY-SUN
           PRECISION SUBSURFACE PRESSURE GAUGE REPORT

   DELTA   PRESSURE                TIME     DATE             COMMENTS
   TIME     (PSI)                 HR MIN

   2,030    329,806               22  47 JAN 06,1975
   2,047    330.091               22  48 JAN 06,1975
   2,064    330.344               22  49 JAN 06,1975
   2,081    330,660               22  50 JAN 06,1975
   2,098    330,913               22  51 JAN 06,1975
   2,115    331,166               22  52 JAN 06,1975
   2,132    331,451               22  53 JAN 06,1975
   2,148    331.735               22  54 JAN 06,1975
   2,165    332,020               22  55 JAN 06,1975
   2,182    332,273               22  56 JAN 06,1975
   2,199    332,747               22  57 JAN 06,1975
   2,216    333.000               22  58 JAN 06,1975
   2,233    333.064               22  59 JAN 06,1975
   2,250    333,570               23  00 JAN 06,1975   END TEST




                  134 POINTS REPORTED THIS RUN
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JOHNSTON

Schlumberger

technical report

COMPANY ATLANTIC-RICHFIELD COMPANY
WELL FEDERAL S.G. #17
TEST NO. 36-A
COUNTY RIO BLANCO
STATE COLORADO

11 B-1524

F.R. #09088 C

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	1435	-	-
CLOSED FOR INITIAL SHUT-IN	1438	-	-
STARTED PUMPING WATER DOWN			
DRILL PIPE	1508	-	-
PUMPED FOR 12 MINUTES.			
WATER IN DRILL PIPE UP TO			
WITHIN 1000' OF SURFACE	1520	-	-
FINISHED SHUT-IN	1520	-	-
RE-OPENED TOOL	1523	-	-
CLOSED FOR FINAL SHUT-IN	1713	-	-
PULLED PACKER LOOSE	1731	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested GREEN RIVER
Elevation 7036 Ft.
Net Productive Interval 50 Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 2370 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 297' I.D. -
Drill Pipe Length 1970' I.D. -
Packer Depth(s) 2316 & 2320 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure ______ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas ______
cc. Oil ______
cc. Water ______
cc. Mud ______
Tot. Liquid cc. ______
Gravity ______ °API @ ______ °F.
Gas/Oil Ratio ______ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH
Well FEDERAL S.G. #17 Location 436'FWL 181'FSL SEC.16-3S-96W
Test Interval 2320' TO 2370' II B-1525 Test # 36-A Date 1-8-75

County RIO BLANCO State COLORADO
Technician BURNS(VERNAL) Test Approved By MR. CHARLES BERGONZINI

Field Report No. 09088 C
No. Reports Requested 14(13x)

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4633 N PRESSURE (P.S.I.G.)	INSTRUMENT #4097 N PRESSURE (P.S.I.G.)
INITIAL HYDROSTATIC	1	-		782.7	793.3
OPENED TOOL	2	1435	0	70.7	61.4
			2	77.3	541.3
CLOSED FOR INITIAL SHUT-IN	3	1438	3	79.9	542.7
			4	161.2	689.1
			6	313.3	707.4
			8	477.2	715.9
			10	645.0	721.5
			12	681.7	724.3
			14	696.2	725.7
			16	705.3	727.1
			18	710.6	728.5
			20	714.5	728.5
			22	715.8	729.9
			24	717.1	729.9
			26	718.4	729.9
			28	719.8	729.9
			30	719.8	729.9
			32	719.8	729.9
			34	719.8	728.5
			36	719.8	728.5
			38	719.8	727.1
			40	719.8	727.1
			42	719.8	725.7
			44	718.4	725.7
INITIAL SHUT-IN - CYCLED TOOL	4	1520	45	718.4	725.7
			46	718.4	724.3
			48	722.4	724.3
TOOL RE-OPENED - INITIAL FLOW	5	1524	49	730.2	738.4
			50	730.2	739.8
			52	730.2	739.8
			54	730.2	739.8
			56	730.2	738.4
			58	730.2	738.4
			60	730.2	738.4
			62	730.2	738.4
			64	728.9	738.4
			66	728.9	738.4
			68	728.9	738.4
			70	728.9	737.0
			72	727.6	737.0
			74	727.6	737.0
			76	727.6	737.0
			78	727.6	735.6
			80	727.6	734.2
			82	726.3	734.2
			84	725.0	734.2
			86	725.0	734.2
			88	725.0	734.2
			90	725.0	734.2
			92	725.0	734.2
			94	725.0	734.2

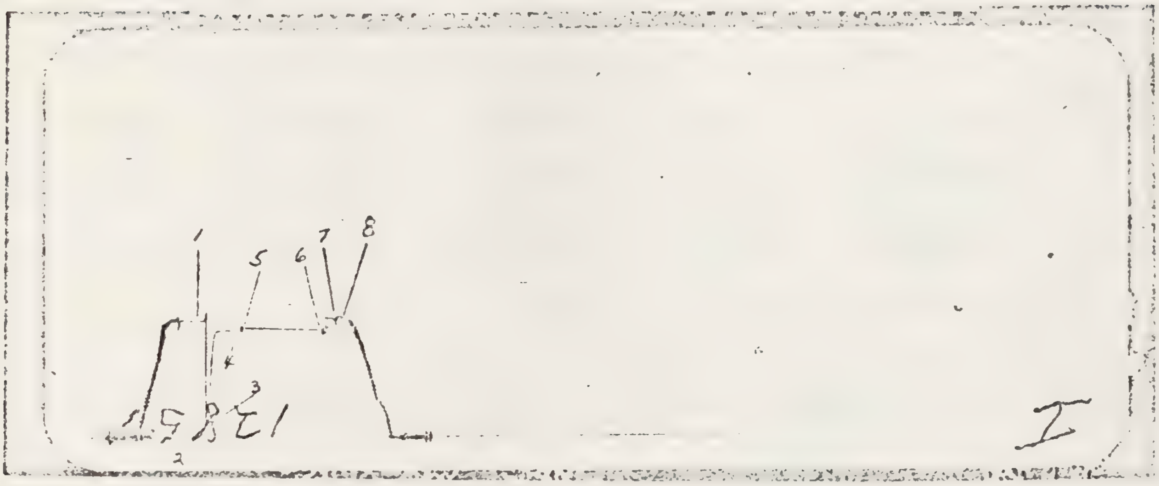
DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4633 N PRESSURE(P.S.I.G.)	INSTRUMENT #4097 N PRESSURE(P.S.I.G.
			96	725.0	734.2
			98	725.0	734.2
			100	725.0	734.2
			102	725.0	734.2
			104	725.0	734.2
			106	725.0	734.2
			108	725.0	734.2
			110	723.7	734.2
			112	723.7	734.2
			114	723.7	734.2
			116	723.7	734.2
			118	723.7	734.2
			120	723.7	732.8
			122	723.7	732.8
			124	723.7	732.8
			126	723.7	732.8
			128	722.4	731.3
			130	722.4	731.3
			132	722.4	731.3
			134	722.4	731.3
			136	722.4	731.3
			138	722.4	731.3
			140	721.1	731.3
			142	721.1	731.3
			144	721.1	731.3
			146	721.1	729.9
			148	721.1	729.9
			150	721.1	729.9
			152	719.8	729.9
			154	719.8	729.9
			156	719.8	729.9
FINAL FLOW - CLOSED TOOL	6	1713	158	719.8	729.9
			160	803.7	813.0
			162	801.1	811.6
			164	799.7	810.2
			166	798.4	810.2
			168	798.4	808.8
			170	797.1	808.8
			172	797.1	807.4
			174	797.1	805.9
FINAL SHUT-IN - PULLED PACKER LOOSE	7	1731	176	795.8	805.9
FINAL HYDROSTATIC	8	-		790.6	797.5

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):	2600#	2800#
DEPTH:	2295'	2321'
INSTRUMENT OPENING:	INSIDE	OUTSIDE

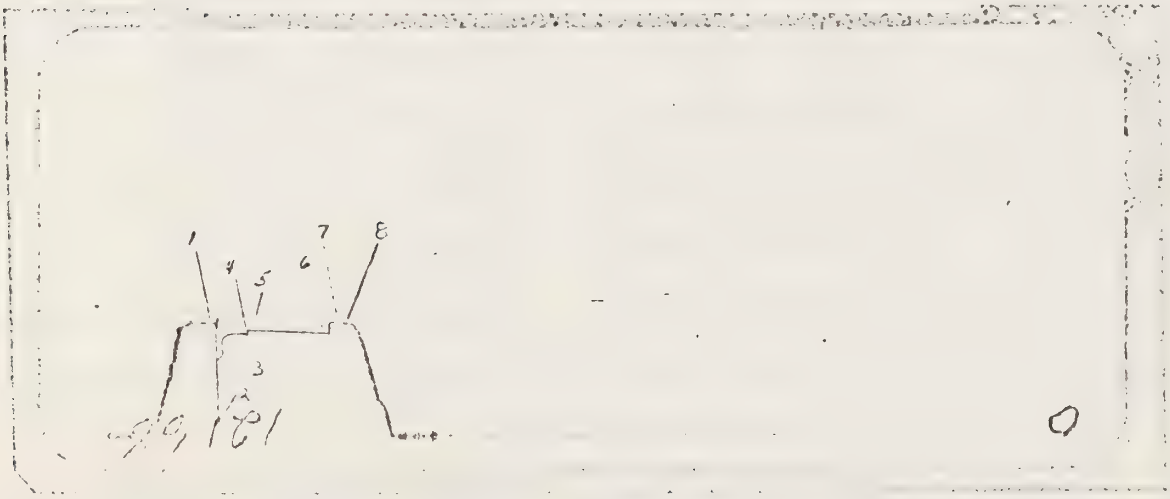
JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09088 C	4633 N
CAPACITY	**REPORTS REQUESTED**
2600#	14+



JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09088 C	4097 N
CAPACITY	**REPORTS REQUESTED**
2800#	14+



PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SPG-1121C II Date JAN 8 1975 Run DST 36 A Office CASPER

Customer Arco Et AL Location Sorghum Gulch

State Colo County/~~Parish~~ Rio Blanco

Well Sorghum Gulch No. 17 Field Tract Cb

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/Dock	1. 1100	1/8/75	2.		
Depart: Well/Dock	1. 0315	1/9/75	2.		16 1/4 Hrs.
Gauge Start in Hole	1. 1205	1/8/75	2. 1231	1/8/75	
Gauge Out of Hole	1. 1956	1/8/75	2. 1920	1/8/75	8 Hrs.

No. Trips 1 Miles 90 Total Mileage 90

Top Gauge # 102 Element # 32764 Range 1000 Time Mode 1 min

Btm. Gauge # 105 Element # 35993 Range 1400 Time Mode 1 min

Type Tool DST Test Depth 2320 - 2370 Zero Point Ground level

Packer Depth 2320 Tail Pipe Depth 2268 Top Gauge Depth 2268

Bottom Hole Temp. Atmos. Temp. Bottom Gauge Depth 2330

TIME INFORMATION	Time	Date	PRESSURE INFORMATION	
On Bottom	1354	1/8/75	Initial Hydrostatic Mud	
Packer Set	1434 ~~1344~~	1/8/75	Initial Draw Down	
Initial Open	1435	1/8/75	Initial Build-Up	
Initial Shut-In	1438	1/8/75	Final Flow	
Start Flow	1523	1/8/75	Final Build-Up	
Final Shut-In	1713	1/8/75	Final Hydrostatic Mud	
Packer Unseated	1741	1/8/75	Mud Weight	

TIME OF SURFACE NULLS

Top Gauge 1220 1221 1222 Bottom Gauge 1158 1159 1200

Remarks

Ken Perales
Operator

SP-423

II B-1529

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT CB
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

THESE DATA FROM GAUGE NO. 105, WITH A 1000LB.
ELEMENT, SET IN DRILL PIPE AT 2330 FT.
THE PACKER WAS SET AT 2320 FT.
INITIAL HYDROSTATIC PRESSURE WAS 795.14 PSI.
FINAL HYDROSTATIC PRESSURE WAS 800.69 PSI.
THIS TEST ABORTED AND RE-RUN LATER SAME DAY.
APPARENTLY NO RECOVERY.

156 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-II

DATE OF JC
JANUARY 8, 197

GAUGE/RUN NUMBER
105 DST-36-A INIT,OPEN

DATE OF RU
JANUARY 30, 197

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
,050	62,389	14 38	JAN 08,1975	INITIAL OPEN

1 POINTS REPORTED THIS RUN

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JOB NUMBER                                                               DATE OF JO
SPG-11210-II                                                         JANUARY 8, 1975

GAUGE/RUN NUMBER                                                         DATE OF RU
105   DST-36-A   SHUT-IN                                            JANUARY 30, 1975

                                      SPERRY-SUN
                       PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA   PRESSURE                 TIME      DATE                COMMENTS
    TIME     (PSI)                  HR MIN

    0,000     62,389                14   38 JAN 08,1975   INITIAL CLOSE
     ,017    105,766                14   39 JAN 08,1975
     ,035    164,644                14   40 JAN 08,1975
     ,052    390,627                14   41 JAN 08,1975
     ,070    480,710                14   42 JAN 08,1975
     ,087    502,228                14   43 JAN 08,1975
     ,105    516,725                14   44 JAN 08,1975
     ,122    523,381                14   45 JAN 08,1975
     ,140    528,328                14   46 JAN 08,1975
     ,157    531,952                14   47 JAN 08,1975
     ,174    534,642                14   48 JAN 08,1975
     ,192    536,762                14   50 JAN 08,1975
     ,209    538,403                14   51 JAN 08,1975
     ,227    539,702                14   52 JAN 08,1975
     ,244    540,773                14   53 JAN 08,1975
     ,262    541,640                14   54 JAN 08,1975
     ,279    542,346                14   55 JAN 08,1975
     ,297    542,962                14   56 JAN 08,1975
     ,314    543,418                14   57 JAN 08,1975
     ,331    543,828                14   58 JAN 08,1975
     ,349    544,147                14   59 JAN 08,1975
     ,366    544,398                15   00 JAN 08,1975
     ,384    544,603                15   01 JAN 08,1975
     ,401    544,740                15   02 JAN 08,1975
     ,419    544,808                15   03 JAN 08,1975
     ,436    544,876                15   04 JAN 08,1975
     ,453    544,922                15   05 JAN 08,1975
     ,471    544,945                15   06 JAN 08,1975
     ,488    544,922                15   07 JAN 08,1975
     ,506    544,854                15   08 JAN 08,1975
     ,523    544,762                15   09 JAN 08,1975
     ,541    544,740                15   10 JAN 08,1975
     ,558    544,626                15   11 JAN 08,1975
     ,576    544,512                15   13 JAN 08,1975
     ,593    544,352                15   14 JAN 08,1975
     ,610    544,238                15   15 JAN 08,1975
     ,628    544,079                15   16 JAN 08,1975
     ,645    543,896                15   17 JAN 08,1975
     ,663    543,760                15   18 JAN 08,1975
     ,680    543,600                15   19 JAN 08,1975
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JOB NUMBER                                                      DATE OF JO
SPG-11210-II                                                   JANUARY 8, 197

GAUGE/RUN NUMBER                                                DATE OF RU
105   DST-36-A   SHUT-IN                                       JANUARY 30, 197

                                SPERRY-SUN
                 PRECISION SUBSURFACE PRESSURE GAUGE REPORT

   DELTA   PRESSURE                 TIME     DATE               COMMENTS
   TIME     (PSI)                  HR MIN

    .698    543.440                15  20 JAN 08,1975
    .715    543.258                15  21 JAN 08,1975
    .733    543.053                15  22 JAN 08,1975   STOP INJECTION
    .750    542.893                15  23 JAN 08,1975   END CLOSE
```

44 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JC
JANUARY 8, 197

GAUGE/RUN NUMBER
105 DST-36-A FINAL OPEN

DATE OF RU
JANUARY 30, 197

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0,000	542,893	15	23	JAN 08,1975	FINAL OPEN
,017	551,897	15	24	JAN 08,1975	
,033	551,988	15	25	JAN 08,1975	
,050	551,920	15	26	JAN 08,1975	
,067	552,102	15	27	JAN 08,1975	
,083	552,125	15	28	JAN 08,1975	
,100	552,102	15	29	JAN 08,1975	
,117	552,034	15	30	JAN 08,1975	
,133	551,965	15	31	JAN 08,1975	
,150	551,829	15	32	JAN 08,1975	
,167	551,760	15	33	JAN 08,1975	
,183	551,646	15	34	JAN 08,1975	
,200	551,532	15	35	JAN 08,1975	
,217	551,418	15	36	JAN 08,1975	
,233	551,327	15	37	JAN 08,1975	
,250	551,190	15	38	JAN 08,1975	
,267	551,145	15	39	JAN 08,1975	
,283	551,054	15	40	JAN 08,1975	
,300	550,940	15	41	JAN 08,1975	
,317	550,940	15	42	JAN 08,1975	
,333	550,803	15	43	JAN 08,1975	
,350	550,666	15	44	JAN 08,1975	
,367	550,598	15	45	JAN 08,1975	
,383	550,507	15	46	JAN 08,1975	
,400	550,393	15	47	JAN 08,1975	
,417	550,370	15	48	JAN 08,1975	
,433	550,256	15	49	JAN 08,1975	
,450	550,210	15	50	JAN 08,1975	
,467	550,096	15	51	JAN 08,1975	
,483	550,096	15	52	JAN 08,1975	
,500	549,914	15	53	JAN 08,1975	
,517	549,754	15	54	JAN 08,1975	
,533	549,640	15	55	JAN 08,1975	
,550	549,686	15	56	JAN 08,1975	
,567	549,390	15	57	JAN 08,1975	
,583	548,729	15	58	JAN 08,1975	
,600	548,638	15	59	JAN 08,1975	
,617	547,999	16	00	JAN 08,1975	
,633	548,546	16	01	JAN 08,1975	
,650	548,227	16	02	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JO
JANUARY 8, 197

GAUGE/RUN NUMBER
105 DST-36-A FINAL OPEN

DATE OF RU
JANUARY 30, 197

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
,667	548,250	16	03	JAN 08,1975	
,683	548,410	16	04	JAN 08,1975	
,700	548,318	16	05	JAN 08,1975	
,717	548,318	16	06	JAN 08,1975	
,733	548,569	16	07	JAN 08,1975	
,750	548,638	16	08	JAN 08,1975	
,767	548,432	16	09	JAN 08,1975	
,783	548,660	16	10	JAN 08,1975	
,800	548,615	16	11	JAN 08,1975	
,817	548,090	16	12	JAN 08,1975	
,833	548,364	16	13	JAN 08,1975	
,850	548,341	16	14	JAN 08,1975	
,867	548,478	16	15	JAN 08,1975	DOWN ANNULUS
,883	548,318	16	16	JAN 08,1975	WITH 60 GPM
,900	548,182	16	17	JAN 08,1975	
,917	548,296	16	18	JAN 08,1975	
,933	548,273	16	19	JAN 08,1975	
,950	548,022	16	20	JAN 08,1975	
,967	548,136	16	21	JAN 08,1975	
,983	548,045	16	22	JAN 08,1975	
1,000	547,931	16	23	JAN 08,1975	
1,017	547,794	16	24	JAN 08,1975	
1,033	547,680	16	25	JAN 08,1975	
1,050	547,794	16	26	JAN 08,1975	
1,067	547,521	16	27	JAN 08,1975	
1,083	547,521	16	28	JAN 08,1975	
1,100	547,407	16	29	JAN 08,1975	
1,117	547,566	16	30	JAN 08,1975	
1,133	547,452	16	31	JAN 08,1975	
1,150	547,407	16	32	JAN 08,1975	
1,167	547,384	16	33	JAN 08,1975	
1,183	547,361	16	34	JAN 08,1975	
1,200	547,384	16	35	JAN 08,1975	
1,217	547,384	16	36	JAN 08,1975	
1,233	547,270	16	37	JAN 08,1975	
1,250	547,224	16	38	JAN 08,1975	
1,267	547,156	16	39	JAN 08,1975	
1,283	547,087	16	40	JAN 08,1975	
1,300	547,042	16	41	JAN 08,1975	
1,317	547,019	16	42	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JO
JANUARY 8, 197

GAUGE/RUN NUMBER
105 DST-36-A FINAL OPEN

DATE OF RU
JANUARY 30, 197

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,333	546,928	16	43	JAN 08,1975	
1,350	546,837	16	44	JAN 08,1975	
1,367	546,814	16	45	JAN 08,1975	
1,383	546,746	16	46	JAN 08,1975	
1,400	546,677	16	47	JAN 08,1975	
1,417	546,586	16	48	JAN 08,1975	
1,433	546,518	16	49	JAN 08,1975	
1,450	546,449	16	50	JAN 08,1975	
1,467	546,381	16	51	JAN 08,1975	
1,483	546,312	16	52	JAN 08,1975	
1,500	546,267	16	53	JAN 08,1975	
1,517	546,176	16	54	JAN 08,1975	
1,533	546,153	16	55	JAN 08,1975	
1,550	546,085	16	56	JAN 08,1975	
1,567	546,039	16	57	JAN 08,1975	
1,583	545,971	16	58	JAN 08,1975	
1,600	545,902	16	59	JAN 08,1975	
1,617	545,857	17	00	JAN 08,1975	
1,633	545,765	17	01	JAN 08,1975	STOP INJECTION
1,650	545,743	17	02	JAN 08,1975	
1,667	545,674	17	03	JAN 08,1975	
1,683	545,606	17	04	JAN 08,1975	
1,700	545,560	17	05	JAN 08,1975	
1,717	545,469	17	06	JAN 08,1975	
1,733	545,424	17	07	JAN 08,1975	
1,750	545,355	17	08	JAN 08,1975	
1,767	545,287	17	09	JAN 08,1975	
1,783	545,241	17	10	JAN 08,1975	
1,800	545,196	17	11	JAN 08,1975	
1,817	545,127	17	12	JAN 08,1975	
1,833	545,173	17	13	JAN 08,1975	END TEST

111 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JO
JANUARY 8, 197

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT CB
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

THESE DATA FROM GAUGE NO. 102, WITH A 1000LB. ELEMENT, SET IN ANNULUS AT 2268 FT.

THE PACKER WAS SET AT 2320 FT.

INITIAL HYDROSTATIC PRESSURE WAS 767.85 PSI

FINAL HYDROSTATIC PRESSURE WAS 772.70 PSI

THIS TEST ABORTED AND RE-RUN LATER SAME DAY.

APPARENTLY NO RECOVERY.

159 POINTS REPORTED THIS JOB

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-II                                                    JANUARY 8, 1975

GAUGE/RUN NUMBER                                                    DATE OF RUN
102  DST-36-A     INIT.OPEN                                    JANUARY 30, 7975

                                  SPERRY-SUN
                    PRECISION SUBSURFACE PRESSURE GAUGE REPORT

     DELTA    PRESSURE                      TIME     DATE            COMMENTS
     TIME      (PSI)                       HR MIN

     0.000     778.563                     14  35 JAN 08,1975   INITIAL OPEN
      .050     778.791                     14  38 JAN 08,1975
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2 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JO
JANUARY 8, 197

GAUGE/RUN NUMBER
102 DST-36-A SHUT-IN

DATE OF RU

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	778,791	14	38	JAN 08,1975	INITIAL CLOSE
,017	778,472	14	39	JAN 08,1975	
,033	778,495	14	40	JAN 08,1975	
,050	778,563	14	41	JAN 08,1975	
,067	778,586	14	42	JAN 08,1975	
,083	778,609	14	43	JAN 08,1975	
,100	778,609	14	44	JAN 08,1975	
,117	778,609	14	45	JAN 08,1975	
,133	778,654	14	46	JAN 08,1975	
,150	778,654	14	47	JAN 08,1975	
,167	778,677	14	48	JAN 08,1975	
,183	778,700	14	49	JAN 08,1975	
,200	778,723	14	50	JAN 08,1975	
,217	778,745	14	51	JAN 08,1975	
,233	778,791	14	52	JAN 08,1975	
,250	778,814	14	53	JAN 08,1975	
,267	778,837	14	54	JAN 08,1975	
,283	778,882	14	55	JAN 08,1975	
,300	778,905	14	56	JAN 08,1975	
,317	778,928	14	57	JAN 08,1975	
,333	778,950	14	58	JAN 08,1975	
,350	778,996	14	59	JAN 08,1975	
,367	779,019	15	00	JAN 08,1975	
,383	779,064	15	01	JAN 08,1975	
,400	779,087	15	02	JAN 08,1975	
,417	779,110	15	03	JAN 08,1975	
,433	779,110	15	04	JAN 08,1975	
,450	779,087	15	05	JAN 08,1975	
,467	779,178	15	06	JAN 08,1975	
,483	779,247	15	07	JAN 08,1975	
,500	779,269	15	08	JAN 08,1975	
,517	779,292	15	09	JAN 08,1975	
,533	779,315	15	10	JAN 08,1975	
,550	779,361	15	11	JAN 08,1975	
,567	779,383	15	12	JAN 08,1975	
,583	779,406	15	13	JAN 08,1975	
,600	779,452	15	14	JAN 08,1975	
,617	779,520	15	15	JAN 08,1975	
,633	779,520	15	16	JAN 08,1975	
,650	779,566	15	17	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JOE
JANUARY 8, 197

GAUGE/RUN NUMBER
102 DST-36-A SHUT-IN

DATE OF RU

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
,667	779,611	15	18	JAN 08,1975	
,683	779,657	15	19	JAN 08,1975	
,700	779,657	15	20	JAN 08,1975	
,717	779,702	15	21	JAN 08,1975	
,733	779,725	15	22	JAN 08,1975	
,750	779,748	15	23	JAN 08,1975	END SHUT-IN

II B-1540

46 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JO
JANUARY 8, 197

GAUGE/RUN NUMBER
102 DST-36-A FINAL FLOW

DATE OF RU

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	779,748	15	23	JAN 08,1975	OPEN TO FLOW
,017	779,702	15	24	JAN 08,1975	
,033	779,999	15	25	JAN 08,1975	
,050	780,044	15	26	JAN 08,1975	
,067	780,067	15	27	JAN 08,1975	
,083	780,090	15	28	JAN 08,1975	
,100	780,112	15	29	JAN 08,1975	
,117	780,112	15	30	JAN 08,1975	
,133	780,158	15	31	JAN 08,1975	
,150	780,158	15	32	JAN 08,1975	
,167	780,181	15	33	JAN 08,1975	
,183	780,226	15	34	JAN 08,1975	
,200	780,249	15	35	JAN 08,1975	
,217	780,272	15	36	JAN 08,1975	
,233	780,295	15	37	JAN 08,1975	
,250	780,318	15	38	JAN 08,1975	
,267	780,363	15	39	JAN 08,1975	
,283	780,340	15	40	JAN 08,1975	
,300	780,340	15	41	JAN 08,1975	
,317	780,431	15	42	JAN 08,1975	
,333	780,431	15	43	JAN 08,1975	
,350	780,431	15	44	JAN 08,1975	
,367	780,431	15	45	JAN 08,1975	
,383	780,431	15	46	JAN 08,1975	
,400	780,477	15	47	JAN 08,1975	
,417	780,500	15	48	JAN 08,1975	
,433	780,545	15	49	JAN 08,1975	
,450	780,568	15	50	JAN 08,1975	
,467	780,591	15	51	JAN 08,1975	
,483	780,614	15	52	JAN 08,1975	
,500	780,637	15	53	JAN 08,1975	
,517	780,637	15	54	JAN 08,1975	
,533	780,637	15	55	JAN 08,1975	
,550	780,659	15	56	JAN 08,1975	
,567	780,682	15	57	JAN 08,1975	
,583	780,705	15	58	JAN 08,1975	
,600	780,750	15	59	JAN 08,1975	
,617	780,750	16	00	JAN 08,1975	
,633	780,773	16	01	JAN 08,1975	
,650	780,796	16	02	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8, 1975

GAUGE/RUN NUMBER
102 DST-36-A FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
,667	780,819	16 03	JAN 08,1975	
,683	780,842	16 04	JAN 08,1975	
,700	780,864	16 05	JAN 08,1975	
,717	780,864	16 06	JAN 08,1975	
,733	780,887	16 07	JAN 08,1975	
,750	780,933	16 08	JAN 08,1975	
,767	780,955	16 09	JAN 08,1975	
,783	780,955	16 10	JAN 08,1975	
,800	780,955	16 11	JAN 08,1975	
,817	781,001	16 12	JAN 08,1975	
,833	781,001	16 13	JAN 08,1975	
,850	781,024	16 14	JAN 08,1975	
,867	781,092	16 15	JAN 08,1975	
,883	781,092	16 16	JAN 08,1975	
,900	781,115	16 17	JAN 08,1975	
,917	781,138	16 18	JAN 08,1975	
,933	781,161	16 19	JAN 08,1975	
,950	781,183	16 20	JAN 08,1975	
,967	781,183	16 21	JAN 08,1975	
,983	781,229	16 22	JAN 08,1975	
1,000	781,229	16 23	JAN 08,1975	
1,017	781,252	16 24	JAN 08,1975	
1,033	781,297	16 25	JAN 08,1975	
1,050	781,297	16 26	JAN 08,1975	
1,067	781,320	16 27	JAN 08,1975	END FLOW
1,083	781,457	16 28	JAN 08,1975	START INJECT
1,100	783,371	16 29	JAN 08,1975	DOWN ANNULUS
1,117	785,968	16 30	JAN 08,1975	AT 60 GPM
1,133	788,041	16 31	JAN 08,1975	
1,150	789,750	16 32	JAN 08,1975	
1,167	791,186	16 33	JAN 08,1975	
1,183	792,393	16 34	JAN 08,1975	
1,200	793,487	16 35	JAN 08,1975	
1,217	794,626	16 36	JAN 08,1975	
1,233	795,424	16 37	JAN 08,1975	
1,250	796,290	16 38	JAN 08,1975	
1,267	797,019	16 39	JAN 08,1975	
1,283	797,679	16 40	JAN 08,1975	
1,300	798,203	16 41	JAN 08,1975	
1,317	798,773	16 42	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JO
JANUARY 8, 197

GAUGE/RUN NUMBER
102 DST-36-A FINAL FLOW

DATE OF RU

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1,333	799,251	16	43	JAN 08,1975	
1,350	799,684	16	44	JAN 08,1975	
1,367	800,049	16	45	JAN 08,1975	
1,383	800,436	16	46	JAN 08,1975	
1,400	800,710	16	47	JAN 08,1975	
1,417	801,006	16	48	JAN 08,1975	
1,433	801,302	16	49	JAN 08,1975	
1,450	801,530	16	50	JAN 08,1975	
1,467	801,735	16	51	JAN 08,1975	
1,483	801,940	16	52	JAN 08,1975	
1,500	802,122	16	53	JAN 08,1975	
1,517	802,191	16	54	JAN 08,1975	
1,533	802,236	16	55	JAN 08,1975	
1,550	802,350	16	56	JAN 08,1975	
1,567	802,396	16	57	JAN 08,1975	
1,583	802,578	16	58	JAN 08,1975	
1,600	802,760	16	59	JAN 08,1975	
1,617	802,897	17	00	JAN 08,1975	
1,633	802,988	17	01	JAN 08,1975	
1,650	803,170	17	02	JAN 08,1975	
1,667	803,284	17	03	JAN 08,1975	
1,683	803,376	17	04	JAN 08,1975	
1,700	803,535	17	05	JAN 08,1975	
1,717	803,649	17	06	JAN 08,1975	
1,733	803,786	17	07	JAN 08,1975	
1,750	803,831	17	08	JAN 08,1975	
1,767	803,945	17	09	JAN 08,1975	
1,783	804,082	17	10	JAN 08,1975	
1,800	804,173	17	11	JAN 08,1975	
1,817	804,127	17	12	JAN 08,1975	
1,833	802,396	17	13	JAN 08,1975	END TEST

111 POINTS REPORTED THIS RUN

COMPANY ATLANTIC-RICHFIELD COMPANY WELL FEDERAL S.G. #17 TEST NO. 3C-6 COUNTY RIO BLANCO STATE COLORADO

JOHNSTON

Schlumberger

technical report

II B-1544

F.R. #09089 C

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool (1-8-75)	2154	-	-
CLOSED FOR INITIAL SHUT-IN	2157	-	-
FINISHED SHUT-IN	2227	-	-
RE-OPENED TOOL	2229	-	-
(1-9-75)			
CLOSED TOOL	0038	-	-
PULLED PACKER LOOSE	0044	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE
Formation Tested GREEN RIVER
Elevation 7036 Ft.
Net Productive Interval 55 Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 2370 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 297' I.D. -
Drill Pipe Length 1965' I.D. -
Packer Depth(s) 2311 & 2315 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure P.S.I.G. at Surface
Recovery: Cu. Ft. Gas
cc. Oil
cc. Water
cc. Mud
Tot. Liquid cc.
Gravity °API @ °F.
Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
WATER	300	-				@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202
Company ATLANTIC-RICHFIELD COMPANY
Field SORGHUM GULCH
Well FEDERAL S.G. #17
Location 436'FWL 181'FSL SEC.16-3S-96W
Test Interval 2315' TO 2370'
II B-1545
Test # 36-B
Date 1-8-75
County RIO BLANCO
State COLORADO
Technician BURNS (VERNAL)
Test Approved By MR. CHARLES BERGONZINI
Field Report No. 09089 C
No. Reports Requested 14 13x)

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4633 N PRESSURE(P.S.I.G.)	INSTRUMENT #4097 N PRESSURE(P.S.I.G.)
INITIAL HYDROSTATIC	1	-		785.3	803.1
OPENED TOOL (1-8-75)	2	2154	0	53.7	61.4
CLOSED FOR INITIAL SHUT-IN	3	2156	2	72.0	72.6
			4	180.9	420.3
			6	419.5	704.6
			8	634.5	706.0
			10	693.5	707.4
			12	710.6	732.8
			14	721.1	741.2
			16	726.3	744.0
			18	728.9	746.8
			20	731.6	749.6
			22	734.2	749.6
			24	735.5	751.1
			26	736.8	751.1
			28	736.8	752.5
			30	736.8	752.5
			32	736.8	753.9
			34	736.8	753.9
INITIAL SHUT-IN - CYCLED TOOL	4	2230	36	736.8	753.9
TOOL RE-OPENED - INITIAL FLOW	5	2230	36	72.0	92.3
			38	112.7	121.9
			40	119.2	126.1
			42	123.2	131.8
			44	127.1	136.0
			46	129.7	138.8
			48	132.3	141.6
			50	135.0	144.4
			52	137.6	147.2
			54	138.9	148.6
			56	141.5	150.0
			58	142.8	150.0
			60	142.8	150.0
			62	144.1	151.5
			64	144.1	152.9
			66	145.5	152.9
			68	146.8	154.3
			70	148.1	155.7
			72	148.1	155.7
			74	148.1	155.7
			76	149.4	157.1
			78	149.4	158.5
			80	150.7	158.5
			82	150.7	159.9
			84	152.0	159.9
			86	153.3	161.3
			88	153.3	161.3
			90	153.3	161.3
			92	154.6	162.7
			94	154.6	162.7
			96	155.9	162.7
			98	155.9	164.1

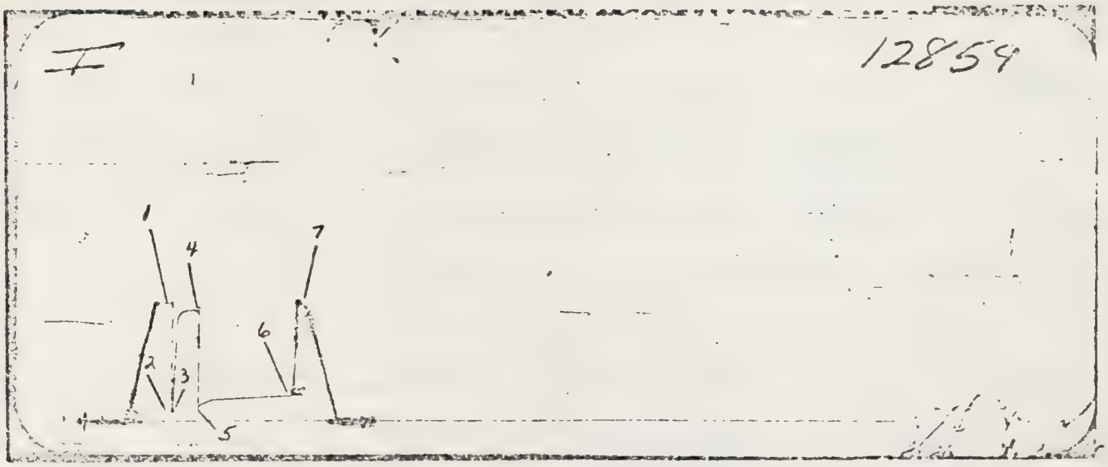
DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4633 N PRESSURE (P.S.I.G.)	INSTRUMENT #4097 N PRESSURE (P.S.I.G.)
			100	155.9	164.1
			102	157.3	165.5
			104	157.3	165.5
			106	157.3	165.5
			108	158.6	166.9
			110	158.6	166.9
			112	158.6	166.9
			114	158.6	168.3
			116	159.9	168.3
			118	159.9	169.8
			120	159.9	169.8
			122	161.2	169.8
			124	161.2	169.8
			126	161.2	171.2
			128	161.2	171.2
			130	162.5	171.2
			132	162.5	171.2
			134	162.5	171.2
			136	162.5	172.6
			138	162.5	172.6
			140	163.8	172.6
			142	163.8	174.0
			144	165.1	174.0
			146	165.1	174.0
			148	165.1	174.0
			150	165.1	174.0
			152	165.1	175.4
			154	166.4	175.4
			156	166.4	175.4
			158	166.4	175.4
			160	166.4	175.4
			162	166.4	176.8
FINAL FLOW - CLOSED TOOL, PULLED PACKER LOOSE (1-9-75)	6	0038	164	166.4	176.8
FINAL HYDROSTATIC	7	-		781.4	800.3

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):	2600#	2800#
DEPTH:	2290'	2316'
INSTRUMENT OPENING:	INSIDE	OUTSIDE

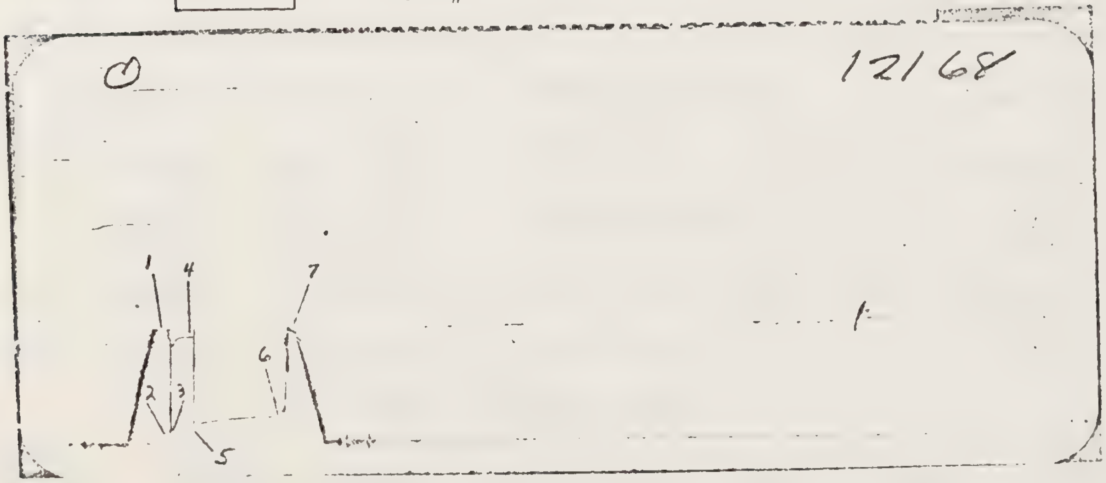
JOHNSTON

FIELD REPORT NO.	**RECORDER NO.**
09089 C	4633 N
CAPACITY	**REPORTS REQUESTED**
2600#	14+



JOHNSTON

FIELD REPORT NO.	**RECORDER NO.**
09089 C	4097 N
CAPACITY	**REPORTS REQUESTED**
2800#	14+



PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SPG-11210 SS Date 1/8/75 Run DST-36B Office CASPER

Customer Arco Et Al Location Sorghum Gulch

State Colo. County/~~Parish~~ Rio Blanco

Well Sorghum Gulch No. 17 Field Tract-Co

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/Dock	1. ~~2000~~ 1900	1/8/75	2.		
Depart: Well/Dock	1. 0315	1/9/75	2.		8 1/4 Hrs.
Gauge Start in Hole	1. 1945	1/8/75	2. 2015	1/8/75	
Gauge Out of Hole	1. 0248	1/9/75	2. 0221	1/9/75	7 Hrs.

2221

No. Trips 1 Miles 90 Total Mileage 90

- -

Top Gauge # 102 Element # 32764 Range 1000 Time Mode 1 min

Btm. Gauge # 105 Element # 35993 Range 1400 Time Mode 1 min

Type Tool DST Test Depth 2315-2370 Zero Point Ground level

Packer Depth 2315 Tail Pipe Depth 2263 Top Gauge Depth 2265

Bottom Hole Temp. ____ Atmos. Temp. ____ Bottom Gauge Depth 2325

TIME INFORMATION	Time	Date	PRESSURE INFORMATION	
On Bottom	2150	1/8/75	Initial Hydrostatic Mud	
Packer Set	2151	1/8/75	Initial Draw Down	
Initial Open	2153	1/8/75	Initial Build-Up	
Initial Shut-In	2155	1/8/75	Final Flow	
Start Flow	2228	1/8/75	Final Build-Up	
Final Shut-In	0036	1/9/75	Final Hydrostatic Mud	
Packer Unseated	0043	1/9/75	Mud Weight	

2436
2228
208
128

TIME OF SURFACE NULLS

Top Gauge 1943 1944 1945 Bottom Gauge 2010 2011 2012

Remarks ____

Kenneth Perales
Operator

SP-423

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT CB
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

THIS IS RUN NO 2 FOR THIS ZONE AS FIRST RUN ABORTED

THIS GAUGE NO. 105 WITH 1400 LB ELEMENT WAS SET AT 2325 FT.

THE PACKER WAS SET AT 2315 FT.

REFERENCE ELEVATION IS 7036 FT.

NO HYDROSTATIC PRESSURES AVAILABLE THIS RUN.

161 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
105 DST NO.36-B INITIAL O N

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	150.951	21	53	JAN 08,1975	INITIAL OPEN
.017	149.288	21	54	JAN 08,1975	
.033	155.282	21	55	JAN 08,1975	END OPEN

3 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
105   DST NO. 36-BSHUTIN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	155,282	21	55	JAN 08,1975	INITIAL CLOSE
,017	296,735	21	56	JAN 08,1975	
,034	571.135	21	57	JAN 08,1975	
,052	733,420	21	58	JAN 08,1975	
,069	768,401	21	59	JAN 08,1975	
,086	776,344	22	00	JAN 08,1975	
,103	802,572	22	01	JAN 08,1975	
,120	808,833	22	02	JAN 08,1975	
,138	813,349	22	03	JAN 08,1975	
,155	816,807	22	04	JAN 08,1975	
,172	819,455	22	05	JAN 08,1975	
,189	821.604	22	06	JAN 08,1975	
,206	823,348	22	07	JAN 08,1975	
,223	824.812	22	08	JAN 08,1975	
,241	825.965	22	09	JAN 08,1975	
,258	826.962	22	10	JAN 08,1975	
,275	827.803	22	12	JAN 08,1975	
,292	828.644	22	13	JAN 08,1975	
,309	829.080	22	14	JAN 08,1975	
,327	829,578	22	15	JAN 08,1975	
,344	830,014	22	16	JAN 08,1975	
,361	830,357	22	17	JAN 08,1975	
,378	830.637	22	18	JAN 08,1975	
,395	830.855	22	19	JAN 08,1975	
,413	831.042	22	20	JAN 08,1975	
,430	831,167	22	21	JAN 08,1975	
,447	831.229	22	22	JAN 08,1975	
,464	831.322	22	23	JAN 08,1975	
,481	831.354	22	24	JAN 08,1975	
,498	831.354	22	25	JAN 08,1975	
,516	831.354	22	26	JAN 08,1975	
,533	822.102	22	27	JAN 08,1975	
,550	825,778	22	28	JAN 08,1975	END CLOSE

33 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
105 DST36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	825,778	22	28	JAN 08,1975	FINAL OPEN
,017	416,953	22	29	JAN 08,1975	
,034	422,182	22	30	JAN 08,1975	
,052	426,695	22	31	JAN 08,1975	
,069	429,994	22	32	JAN 08,1975	
,086	432,452	22	33	JAN 08,1975	
.103	434,506	22	34	JAN 08,1975	
.120	436,685	22	35	JAN 08,1975	
,138	438,584	22	36	JAN 08,1975	
,155	440,451	22	37	JAN 08,1975	
.172	442,132	22	38	JAN 08,1975	
,189	443,719	22	39	JAN 08,1975	
.206	445,088	22	40	JAN 08,1975	
,224	446,426	22	41	JAN 08,1975	
,241	447,796	22	42	JAN 08,1975	
.258	449,010	22	43	JAN 08,1975	
.275	450,223	22	45	JAN 08,1975	
.292	451,468	22	46	JAN 08,1975	
,310	452,527	22	47	JAN 08,1975	
.327	453,460	22	48	JAN 08,1975	
.344	454.176	22	49	JAN 08,1975	
,361	455.016	22	50	JAN 08,1975	
,378	455,639	22	51	JAN 08,1975	
,396	456.199	22	52	JAN 08,1975	
.413	455,826	22	53	JAN 08,1975	
,430	455,110	22	54	JAN 08,1975	
.447	456.821	22	55	JAN 08,1975	
.465	457,288	22	56	JAN 08,1975	
,482	457,537	22	57	JAN 08,1975	
,499	457,942	22	58	JAN 08,1975	
,516	458,595	22	59	JAN 08,1975	
.533	459.062	23	00	JAN 08,1975	
,551	459,187	23	01	JAN 08,1975	
,568	459,934	23	02	JAN 08,1975	END RECOVERY
,585	460.338	23	03	JAN 08,1975	
,602	460.930	23	04	JAN 08,1975	
,619	461.147	23	05	JAN 08,1975	
,637	461,583	23	06	JAN 08,1975	
,654	461,926	23	07	JAN 08,1975	
,671	461,988	23	08	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
105 DST36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
.688	462.392	23	09	JAN 08,1975	
.705	462.953	23	10	JAN 08,1975	
.723	463.264	23	11	JAN 08,1975	
.740	463.513	23	12	JAN 08,1975	
.757	463.686	23	13	JAN 08,1975	
.774	464.260	23	14	JAN 08,1975	
.791	464.664	23	15	JAN 08,1975	
.809	464.882	23	17	JAN 08,1975	
.826	465.411	23	18	JAN 08,1975	
.843	465.816	23	19	JAN 08,1975	
.860	465.972	23	20	JAN 08,1975	
.877	466.096	23	21	JAN 08,1975	
.895	466.345	23	22	JAN 08,1975	
.912	466.750	23	23	JAN 08,1975	
.929	466.936	23	24	JAN 08,1975	
.946	467.528	23	25	JAN 08,1975	
.963	467.683	23	26	JAN 08,1975	
.981	467.870	23	27	JAN 08,1975	
.998	468.181	23	28	JAN 08,1975	
1.015	468.492	23	29	JAN 08,1975	
1.032	468.866	23	30	JAN 08,1975	
1.049	468.990	23	31	JAN 08,1975	
1.067	469.551	23	32	JAN 08,1975	
1.084	469.706	23	33	JAN 08,1975	
1.101	469.986	23	34	JAN 08,1975	
1.118	470.360	23	35	JAN 08,1975	
1.135	470.484	23	36	JAN 08,1975	
1.153	470.796	23	37	JAN 08,1975	
1.170	471.138	23	38	JAN 08,1975	
1.187	471.387	23	39	JAN 08,1975	
1.204	471.480	23	40	JAN 08,1975	
1.221	471.729	23	41	JAN 08,1975	
1.239	471.854	23	42	JAN 08,1975	
1.256	472.134	23	43	JAN 08,1975	
1.273	472.414	23	44	JAN 08,1975	
1.290	472.725	23	45	JAN 08,1975	
1.308	472.787	23	46	JAN 08,1975	
1.325	473.005	23	47	JAN 08,1975	
1.342	473.348	23	49	JAN 08,1975	
1.359	473.752	23	50	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
105 DST36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
1.376	474.001	23	51	JAN 08,1975	
1.394	474.032	23	52	JAN 08,1975	
1.411	474.001	23	53	JAN 08,1975	
1.428	474.375	23	54	JAN 08,1975	
1.445	474.561	23	55	JAN 08,1975	
1.462	474.686	23	56	JAN 08,1975	
1.480	474.904	23	57	JAN 08,1975	
1.497	474.873	23	58	JAN 08,1975	
1.514	475.184	23	59	JAN 08,1975	
1.531	475.433	00	00	JAN 09,1975	
1.548	475.464	00	01	JAN 09,1975	
1.566	475.744	00	02	JAN 09,1975	
1.583	475.806	00	03	JAN 09,1975	
1.600	476.024	00	04	JAN 09,1975	
1.617	476.086	00	05	JAN 09,1975	
1.634	476.335	00	06	JAN 09,1975	
1.652	476.460	00	07	JAN 09,1975	
1.669	476.709	00	08	JAN 09,1975	
1.686	476.896	00	09	JAN 09,1975	
1.703	477.020	00	10	JAN 09,1975	
1.720	477.145	00	11	JAN 09,1975	
1.738	477.394	00	12	JAN 09,1975	
1.755	477.425	00	13	JAN 09,1975	
1.772	477.736	00	14	JAN 09,1975	
1.789	478.016	00	15	JAN 09,1975	
1.806	477.985	00	16	JAN 09,1975	
1.824	478.234	00	17	JAN 09,1975	
1.841	478.421	00	18	JAN 09,1975	
1.858	478.607	00	19	JAN 09,1975	
1.875	478.887	00	21	JAN 09,1975	
1.892	478.887	00	22	JAN 09,1975	
1.910	479.199	00	23	JAN 09,1975	
1.927	479.230	00	24	JAN 09,1975	
1.944	479.323	00	25	JAN 09,1975	
1.961	479.385	00	26	JAN 09,1975	
1.978	479.603	00	27	JAN 09,1975	
1.996	479.759	00	28	JAN 09,1975	
2.013	480.008	00	29	JAN 09,1975	
2.030	479.977	00	30	JAN 09,1975	
2.047	480.288	00	31	JAN 09,1975	

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
105 DST36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,064	480,537	00	32	JAN 09,1975	
2.082	480.475	00	33	JAN 09,1975	
2.099	480,817	00	34	JAN 09,1975	
2,116	481,066	00	35	JAN 09,1975	
2.133	481,097	00	36	JAN 09,1975	END TEST

125 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT CB
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

THIS IS RUN NO. 2 FOR THIS ZONE AS FIRST RUN ABORTED.

THIS GAUGE NO. 102 WITH 1000 LB. ELEMENT WAS SET AT 2263 FT.

THE PACKER WAS SET AT 2315 FT.

REFERENCE ELEVATION IS 7036 FT.

NO HYDROSTATIC PRESSURES AVAILABLE THIS RUN.

II B-1557

164 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
102   DST NO,36-B INITIAL OP

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME		DATE	COMMENTS
		HR	MIN		
0,000	786,018	21	53	JAN 08,1975	INITIAL OPEN
,017	786,040	21	54	JAN 08,1975	
,033	785,972	21	55	JAN 08,1975	INITIAL OPEN

3 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
102 DST NO.36-B SHUTIN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	785.972	21	55	JAN 08,1975	INITIAL CLOSE
.017	785.402	21	56	JAN 08,1975	
.034	785.425	21	57	JAN 08,1975	
.052	785.379	21	58	JAN 08,1975	
.069	785.334	21	59	JAN 08,1975	
.086	785.288	22	00	JAN 08,1975	
.103	785.288	22	01	JAN 08,1975	
.120	785.288	22	02	JAN 08,1975	
.138	785.243	22	03	JAN 08,1975	
.155	785.220	22	04	JAN 08,1975	
.172	785.220	22	05	JAN 08,1975	
.189	785.174	22	06	JAN 08,1975	
.206	785.174	22	07	JAN 08,1975	
.223	785.174	22	08	JAN 08,1975	
.241	785.151	22	09	JAN 08,1975	
.258	785.151	22	10	JAN 08,1975	
.275	785.106	22	12	JAN 08,1975	
.292	785.083	22	13	JAN 08,1975	
.309	785.106	22	14	JAN 08,1975	
.327	785.083	22	15	JAN 08,1975	
.344	785.060	22	16	JAN 08,1975	
.361	785.038	22	17	JAN 08,1975	
.378	785.015	22	18	JAN 08,1975	
.395	785.015	22	19	JAN 08,1975	
.413	784.992	22	20	JAN 08,1975	
.430	784.969	22	21	JAN 08,1975	
.447	784.969	22	22	JAN 08,1975	
.464	784.969	22	23	JAN 08,1975	
.481	784.946	22	24	JAN 08,1975	
.498	784.946	22	25	JAN 08,1975	
.516	784.901	22	26	JAN 08,1975	
.533	784.901	22	27	JAN 08,1975	
.550	792.514	22	28	JAN 08,1975	END CLOSE

33 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
102 DST NO.36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA	PRESSURE	TIME		DATE	COMMENTS
TIME	(PSI)	HR	MIN		
0.000	792.514	22	28	JAN 08,1975	FINAL OPEN
.017	784.696	22	29	JAN 08,1975	
.034	785.038	22	30	JAN 08,1975	
.050	785.038	22	31	JAN 08,1975	
.067	785.015	22	32	JAN 08,1975	
.084	784.969	22	33	JAN 08,1975	
.101	784.924	22	34	JAN 08,1975	
.118	784.901	22	35	JAN 08,1975	
.134	784.901	22	36	JAN 08,1975	
.151	784.878	22	37	JAN 08,1975	
.168	784.901	22	38	JAN 08,1975	
.185	784.878	22	39	JAN 08,1975	
.202	784.878	22	40	JAN 08,1975	
.218	784.878	22	41	JAN 08,1975	
.235	784.878	22	42	JAN 08,1975	
.252	784.901	22	43	JAN 08,1975	
.269	784.901	22	44	JAN 08,1975	
.286	784.901	22	45	JAN 08,1975	
.302	784.901	22	46	JAN 08,1975	
.319	784.901	22	47	JAN 08,1975	
.336	784.901	22	48	JAN 08,1975	
.353	784.901	22	49	JAN 08,1975	
.370	784.924	22	50	JAN 08,1975	
.386	784.946	22	51	JAN 08,1975	
.403	784.878	22	52	JAN 08,1975	
.420	784.924	22	53	JAN 08,1975	
.437	784.924	22	54	JAN 08,1975	
.454	784.901	22	55	JAN 08,1975	
.470	784.924	22	56	JAN 08,1975	
.487	784.946	22	57	JAN 08,1975	
.504	784.924	22	58	JAN 08,1975	
.521	784.924	22	59	JAN 08,1975	
.538	784.924	23	00	JAN 08,1975	
.554	784.946	23	01	JAN 08,1975	END RECOVERY
.571	784.969	23	02	JAN 08,1975	STANDING BY ON
.588	784.969	23	03	JAN 08,1975	OBSERVATION
.605	784.969	23	04	JAN 08,1975	
.622	784.969	23	05	JAN 08,1975	
.638	784.969	23	06	JAN 08,1975	
.655	785.015	23	07	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JOB
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER
102 DST NO.36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
,672	785,015	23	08	JAN 08,1975	
,689	785,015	23	09	JAN 08,1975	
,706	785,015	23	10	JAN 08,1975	
.722	785,015	23	11	JAN 08,1975	
,739	785,038	23	12	JAN 08,1975	
,756	785,015	23	13	JAN 08,1975	
,773	785,060	23	14	JAN 08,1975	
,790	785,038	23	15	JAN 08,1975	
,806	785,083	23	16	JAN 08,1975	
,823	785,083	23	17	JAN 08,1975	
,840	785,083	23	18	JAN 08,1975	
,857	785,060	23	19	JAN 08,1975	
,873	785,106	23	20	JAN 08,1975	
,890	785,129	23	21	JAN 08,1975	
,907	785,174	23	22	JAN 08,1975	
,924	785.129	23	23	JAN 08,1975	
.941	785,151	23	24	JAN 08,1975	
,957	785.151	23	25	JAN 08,1975	
,974	785.174	23	26	JAN 08,1975	
,991	785,151	23	27	JAN 08,1975	
1,008	785,174	23	28	JAN 08,1975	
1,025	785,197	23	29	JAN 08,1975	
1,041	785,197	23	30	JAN 08,1975	
1,058	785,220	23	31	JAN 08,1975	
1,075	785.197	23	33	JAN 08,1975	
1,092	785,220	23	34	JAN 08,1975	
1.109	785,243	23	35	JAN 08,1975	
1,125	785,265	23	36	JAN 08,1975	
1,142	785,265	23	37	JAN 08,1975	
1,159	785.243	23	38	JAN 08,1975	
1,176	785,243	23	39	JAN 08,1975	
1,193	785,288	23	40	JAN 08,1975	
1.209	785,288	23	41	JAN 08,1975	
1,226	785,265	23	42	JAN 08,1975	
1,243	785.220	23	43	JAN 08,1975	
1,260	785,265	23	44	JAN 08,1975	
1,277	785,334	23	45	JAN 08,1975	
1.293	785.288	23	46	JAN 08,1975	
1,310	785,357	23	47	JAN 08,1975	
1,327	785,334	23	48	JAN 08,1975	

JOB NUMBER
SPG-11210-II

DATE OF JO
JANUARY 8 AND 9, 197

GAUGE/RUN NUMBER
102 DST NO,36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
1,344	785,357	23	49	JAN 08,1975	
1,361	785,334	23	50	JAN 08,1975	
1,377	785,357	23	51	JAN 08,1975	
1.394	785,379	23	52	JAN 08,1975	
1,411	785,402	23	53	JAN 08,1975	
1,428	785.357	23	54	JAN 08,1975	
1,445	785,379	23	55	JAN 08,1975	
1,461	785,379	23	56	JAN 08,1975	
1,478	785,448	23	57	JAN 08,1975	
1,495	785,448	23	58	JAN 08,1975	
1.512	785,425	23	59	JAN 08,1975	
1,529	785,448	00	00	JAN 09,1975	
1,545	785,425	00	01	JAN 09,1975	
1.562	785.471	00	02	JAN 09,1975	
1.579	785.448	00	03	JAN 09,1975	
1,596	785,448	00	04	JAN 09,1975	
1,613	785,493	00	05	JAN 09,1975	
1,629	785.493	00	06	JAN 09,1975	
1,646	785.471	00	07	JAN 09,1975	
1,663	785,493	00	08	JAN 09,1975	
1,680	785.471	00	09	JAN 09,1975	
1,697	785,493	00	10	JAN 09,1975	
1,713	785,471	00	11	JAN 09,1975	
1,730	785.493	00	12	JAN 09,1975	
1,747	785.516	00	13	JAN 09,1975	
1,764	785,493	00	14	JAN 09,1975	
1,781	785,539	00	15	JAN 09,1975	
1,797	785,562	00	16	JAN 09,1975	
1,814	785,607	00	17	JAN 09,1975	
1,831	785.630	00	18	JAN 09,1975	
1,848	785,653	00	19	JAN 09,1975	
1,865	785.630	00	20	JAN 09,1975	
1,881	785,676	00	21	JAN 09,1975	
1,898	785,676	00	22	JAN 09,1975	
1,915	785.699	00	23	JAN 09,1975	
1,932	785,676	00	24	JAN 09,1975	
1,949	785,676	00	25	JAN 09,1975	
1,965	785,676	00	26	JAN 09,1975	
1,982	785,721	00	27	JAN 09,1975	
1,999	785,721	00	28	JAN 09,1975	

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-II                                                 JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER                                                    DATE OF RUN
102   DST NO,36-B FINAL FLOW

                                    SPERRY-SUN
                     PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA   PRESSURE                        TIME      DATE              COMMENTS
    TIME     (PSI)                         HR MIN

    2,016    785,721                       00   29 JAN 09,1975
    2,033    785,699                       00   30 JAN 09,1975
    2,049    785,744                       00   31 JAN 09,1975
    2,066    785,767                       00   32 JAN 09,1975
    2,083    785,744                       00   33 JAN 09,1975   NO EVIDENCE OF
    2,100    785,721                       00   34 JAN 09,1975   RECOVERY SO
    2,117    785,744                       00   35 JAN 09,1975   TEST ABORTED
    2,133    785,790                       00   36 JAN 09,1975   END TEST
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128 POINTS REPORTED THIS RUN
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JRM

JOHNSTON

Schlumberger

technical report

II B-1564

F.R. #09090 C

COMPANY ATLANTIC-RICHFIELD COMPANY **WELL** FEDERAL S.G. #17 **TEST NO.** 31 **COUNTY** RIO BLANCO **STATE** COLORADO

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)		Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool		1304	-	-
CLOSED FOR INITIAL SHUT-IN		1308	-	-
FINISHED SHUT-IN		1337	-	-
RE-OPENED TOOL		1338	-	-
INJECTION DOWN DRILL PIPE				
10 GAL./MIN.	FROM	1456	-	-
	TO	1541	-	-
20 GAL./MIN.	FROM	1541	-	-
	TO	1556	-	-
30 GAL./MIN.	FROM	1556	-	-
	TO	1611	-	-
40 GAL./MIN.	FROM	1611	-	-
	TO	1626	-	-
60 GAL./MIN.	FROM	1626	-	-
	TO	1627	-	-
60 GAL./MIN.	FROM	1627	-	-
	TO	1641	-	-
10 GAL./MIN. OF OVERFLOW				
CLOSED TOOL		1716	-	-
PULLED PACKER LOOSE		1718	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER FOAM Wt. -

Viscosity - Water Loss - C.C.

Resist: of Mud - @ - °F; of Filtrate - @ - °F

Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. OPEN HOLE

Formation Tested GREEN RIVER

Elevation 7036 Ft.

Net Productive Interval 65 Ft.

Estimated Porosity - %

All Depths Measured From -

Total Depth 2460 Ft.

Main Hole/Casing Size 6 3/4"

Rat Hole/Liner Size -

Drill Collar Length 297' I.D. -

Drill Pipe Length 2045' I.D. -

Packer Depth(s) 2391 & 2395 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure ______ P.S.I.G. at Surface

Recovery: Cu. Ft. Gas ______

cc. Oil ______

cc. Water ______

cc. Mud ______

Tot. Liquid cc. ______

Gravity ______ °API @ ______ °F.

Gas/Oil Ratio ______ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: PUMPED WATER IN DRILL PIPE UP TO WITHIN 960' OF SURFACE.

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH

Well FEDERAL S.G. #17 Location 436'FWL 181'FSL SEC.16-3S-96W

Test Interval 2395' TO 2460' II B-1565 Test # 37 Date 1-11-75

County RIO BLANCO State COLORADO

Technician BURNS(VERNAL) Test Approved By MR. ALLEN D. WALLER

Field Report No. 09090 C

No. Reports Requested 14(13x)

FIELD REPORT #09090 C

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4097 N PRESSURE (P.S.I.G.)	INSTRUMENT #4633 N PRESSURE (P.S.I.G.)
INITIAL HYDROSTATIC	1	-		822.8	837.8
OPENED TOOL	2	1304	0	485.0	498.2
			2	494.9	507.3
CLOSED FOR INITIAL SHUT-IN	3	1308	4	497.7	508.7
			6	630.0	647.6
			8	625.8	645.0
			10	624.4	643.7
			12	621.6	641.1
			14	618.7	637.2
			16	615.9	634.5
			18	613.1	631.9
			20	611.7	629.3
			22	610.3	628.0
			24	607.5	625.4
			26	606.1	624.0
			28	604.7	622.7
			30	601.9	620.1
			32	600.4	618.8
INITIAL SHUT-IN	4	1337	33	600.4	617.5
			34	638.5	621.4
RE-OPENED TOOL - INITIAL FLOW	5	1339	35	646.9	662.1
			36	646.9	663.4
			38	646.9	663.4
			40	646.9	663.4
			42	646.9	663.4
			44	646.9	662.1
			46	646.9	662.1
			48	646.9	662.1
			50	646.9	662.1
			52	646.9	662.1
			54	646.9	662.1
			56	646.9	662.1
			58	646.9	662.1
			60	646.9	662.1
			62	646.9	662.1
			64	646.9	662.1
			66	646.9	662.1
			68	646.9	662.1
			70	646.9	662.1
			72	646.9	662.1
			74	646.9	662.1
			76	646.9	662.1
			78	646.9	662.1
			80	646.9	662.1
			82	646.9	660.8
			84	646.9	660.8
			86	646.9	660.8
			88	646.9	660.8
			90	646.9	660.8
			92	646.9	660.8
			94	646.9	660.8
			96	646.9	660.8

DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4097 N PRESSURE (P.S.I.G.)	INSTRUMENT #4633 N PRESSURE (P.S.I.G.)
			98	646.9	660.8
			100	646.9	660.8
			102	646.9	660.8
			104	646.9	660.8
			106	646.9	660.8
			108	646.9	660.8
			110	646.9	660.8
			112	646.9	660.8
INJECTING 10 GAL./MIN.	6	1458	114	646.9	660.8
			116	684.9	685.7
			118	727.1	717.1
			120	739.8	743.4
			122	767.9	776.1
			124	811.6	805.0
			126	831.3	832.5
			128	843.9	857.4
			130	887.6	886.3
			132	915.7	917.8
STILL INJECTING, BUT PRESSURE BEGAN TO FALL OFF.	7	1517	133	917.1	928.2
			134	917.1	925.6
			136	905.9	916.4
			138	904.5	915.1
MINIMUM PRESSURE WHILE STILL INJECTING	8	1523	139	904.5	915.1
			140	905.9	916.4
			142	907.3	919.1
			144	910.1	920.4
			146	911.5	920.4
			148	912.9	921.7
			150	914.3	923.0
			152	915.7	925.6
			154	917.1	926.9
			156	918.5	928.2
INJECTING 20 GAL./MIN.	9	1542	158	920.0	929.6
			160	935.4	937.4
			162	939.7	944.0
			164	942.5	946.6
			166	945.3	950.5
			168	948.1	951.8
			170	949.5	954.5
			172	949.5	955.8
INJECTING 30 GAL./MIN.	10	1557	173	949.5	957.1
			174	956.5	961.0
			176	965.0	967.6
			178	972.0	972.8
			180	974.8	976.8
			182	979.1	979.4
			184	981.9	983.3
			186	984.7	985.9
			188	987.5	987.2
			190	993.1	989.9
			192	997.4	992.5
			194	998.8	993.8

FIELD REPORT #09090 C

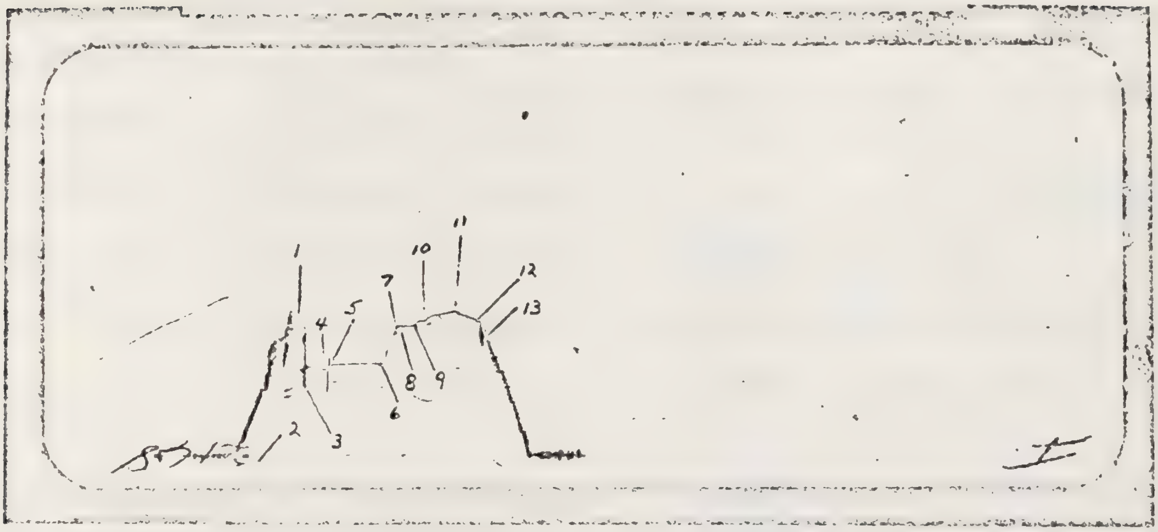
DESCRIPTION	POINT	TIME OF DAY	INCRE.	INSTRUMENT #4097 N PRESSURE (P.S.I.G.)	INSTRUMENT #4633 N PRESSURE (P.S.I.G.)
			196	1003.0	995.1
			198	1004.4	996.4
			200	1005.8	997.7
			202	1008.6	999.0
			204	1008.6	1001.7
			206	1012.8	1004.3
			208	1015.7	1005.6
			210	1015.7	1008.2
			212	1017.1	1010.8
			214	1018.5	1012.2
			216	1019.9	1014.8
PRESSURE BEGAN TO FALL OFF	11	1642	218	1021.3	1016.1
			220	988.9	1008.5
			222	986.1	1001.7
			224	980.5	995.1
			226	974.8	991.2
			228	970.6	987.2
			230	966.4	983.3
			232	965.0	979.4
			234	962.2	975.4
			236	958.0	971.5
			238	955.1	968.9
			240	952.3	966.3
			242	949.5	962.3
			244	948.1	959.7
			246	945.3	958.4
			248	942.5	954.5
			250	941.1	951.8
CLOSED TOOL - PULLED PACKER LOOSE	12	1716	252	938.2	949.2
FINAL HYDROSTATIC	13	-		832.7	840.4

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):	2800#	2600#
DEPTH:	2370'	2397'
INSTRUMENT OPENING:	INSIDE	OUTSIDE

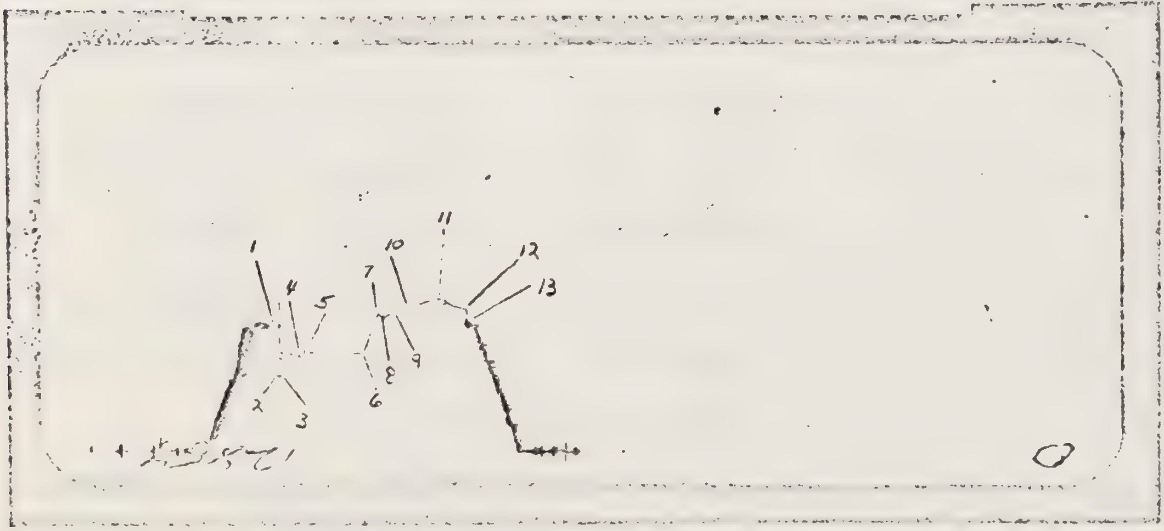
JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09090 C	4097 N
CAPACITY	REPORTS REQUESTED
2800#	14+



JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09090 C	4633 N
CAPACITY	REPORTS REQUESTED
2600#	14+



PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SPG-11210JJ Date January 11, 1975 Run #1 DST-37 Office CASPER

Customer ARCO Et AL Location Sorghum Gulch

State Colorado County[redacted] Rio BLANCO

Well Sorghum Gulch No. 17 Field TRACT Cb

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/[redacted]	1. 0640 hrs.	1/11/75	2.		
Depart: Well/[redacted]	1. 2030 hrs.	1/11/75	2.		13 hrs 50 min [redacted].
Gauge Start in Hole	1. 0946 hrs	1/11/75	2. 1035 hrs.	1/11/75	
Gauge Out of Hole	1. 1944 hrs.	1/11/75	2. 1937 hrs.	1/11/75	9 hrs. 53 min. [redacted].

No. Trips 1 Miles 90 miles Total Mileage 90 miles

- -

Top Gauge # 71 Element # 30951 Range 1000 Time Mode 1 min.

Btm. Gauge # 222 Element # 35990 Range 1400 Time Mode 1 min.

Type Tool ____ Test Depth 2395' – 2460' Zero Point Ground LEVEL

Packer Depth 2395' Tail Pipe Depth 2460' Top Gauge Depth 2341'

Bottom Hole Temp. — Atmos. Temp. — Bottom Gauge Depth 2405'

TIME INFORMATION

	Time	Date
On Bottom	1244	1/11/75
Packer Set	1303	1/11/75
Initial Open	1304	1/11/75
Initial Shut-In	1308	1/11/75
Start Flow	1338	1/11/75
Final Shut-In	1716	1/11/75
Packer Unseated	1718	1/11/75

PRESSURE INFORMATION

Initial Hydrostatic Mud	
Initial Draw Down	
Initial Build-Up	
Final Flow	
Final Build-Up	
Final Hydrostatic Mud	
Mud Weight	

TIME OF SURFACE NULLS

Top Gauge 1035 1036 1037 Bottom Gauge 0946 0947 0948

Remarks ____

Don Mixon
Operator

SP-423

II B-1570

JOB NUMBER
SPG-11210-JJ

DATE OF JOB
JANUARY 11, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT CB
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

THIS GAUGE NUMBER 71 WITH 1000 LB. ELEMENT WAS SET AT 2341 FT. IN ANNULUS.

THE PACKER WAS SET AT 2395 FT.

REFERENCE ELEVATION IS 7036 FT.

INITIAL HYDROSTATIC WAS 814.21 PSI

FINAL HYDROSTATIC WAS 821.33 PSI

1500 FT. OF WATER PUT INTO PIPE AS PIPE WAS BEING RUN IN HOLE.

258 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-JJ

DATE OF JOB
JANUARY 11, 1975

GAUGE/RUN NUMBER
71 DST NO,37 INIT,OPEN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0,000	814,067	13	04	JAN 11,1975	INITIAL OPEN
,017	814,515	13	05	JAN 11,1975	
,033	821,260	13	06	JAN 11,1975	
,050	821,472	13	07	JAN 11,1975	
,067	821,519	13	08	JAN 11,1975	END OPEN

5 POINTS REPORTED THIS RUN

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JOB NUMBER                                                         DATE OF JOB
SPG-11210-JJ                                                  JANUARY 11, 1975

GAUGE/RUN NUMBER                                                   DATE OF RUN
71     DST NO.37  SHUT IN

                                  SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                    TIME     DATE             COMMENTS
    TIME      (PSI)                     HR MIN

    0.000     821.519                   13   08 JAN 11,1975   INITIAL CLOSE
     .017     820.741                   13   09 JAN 11,1975
     .033     821.118                   13   10 JAN 11,1975
     .050     821.118                   13   11 JAN 11,1975
     .067     821.024                   13   12 JAN 11,1975
     .083     821.024                   13   13 JAN 11,1975
     .100     820.835                   13   14 JAN 11,1975
     .117     820.812                   13   15 JAN 11,1975
     .133     820.812                   13   16 JAN 11,1975
     .150     820.812                   13   17 JAN 11,1975
     .167     820.812                   13   18 JAN 11,1975
     .183     820.859                   13   19 JAN 11,1975
     .200     820.835                   13   20 JAN 11,1975
     .217     820.883                   13   21 JAN 11,1975
     .233     820.788                   13   22 JAN 11,1975
     .250     820.906                   13   23 JAN 11,1975
     .267     820.835                   13   24 JAN 11,1975
     .283     820.765                   13   25 JAN 11,1975
     .300     820.859                   13   26 JAN 11,1975
     .317     820.953                   13   27 JAN 11,1975
     .333     820.906                   13   28 JAN 11,1975
     .350     821.048                   13   29 JAN 11,1975
     .367     820.953                   13   30 JAN 11,1975
     .383     821.024                   13   31 JAN 11,1975
     .400     821.071                   13   32 JAN 11,1975
     .417     821.118                   13   33 JAN 11,1975
     .433     821.142                   13   34 JAN 11,1975
     .450     821.095                   13   35 JAN 11,1975
     .467     821.284                   13   36 JAN 11,1975
     .483     821.095                   13   37 JAN 11,1975
     .500     821.236                   13   38 JAN 11,1975   END SHUT-IN
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                         31 POINTS REPORTED THIS RUN
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JOB NUMBER                                                              DATE OF JOB
SPG-11210-JJ                                                        JANUARY 11, 1975

GAUGE/RUN NUMBER                                                        DATE OF RUN
71     DST NO.37 FINAL FLOW

                                 SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA     PRESSURE                     TIME      DATE               COMMENTS
   TIME       (PSI)                      HR MIN

   0.000     821.236                     13   38 JAN 11,1975    START FLOW
    .016     818.218                     13   39 JAN 11,1975    TOOL ACTION
    .033     821.024                     13   40 JAN 11,1975
    .049     821.189                     13   41 JAN 11,1975
    .066     821.189                     13   42 JAN 11,1975
    .082     821.213                     13   43 JAN 11,1975
    .099     821.236                     13   44 JAN 11,1975
    .115     821.260                     13   45 JAN 11,1975
    .132     821.284                     13   46 JAN 11,1975
    .148     821.331                     13   47 JAN 11,1975
    .164     821.354                     13   48 JAN 11,1975
    .181     821.378                     13   49 JAN 11,1975
    .197     821.401                     13   50 JAN 11,1975
    .214     821.449                     13   51 JAN 11,1975
    .230     821.496                     13   52 JAN 11,1975
    .247     821.519                     13   53 JAN 11,1975
    .263     821.543                     13   54 JAN 11,1975
    .279     821.590                     13   55 JAN 11,1975
    .296     821.614                     13   56 JAN 11,1975
    .312     821.637                     13   57 JAN 11,1975
    .329     821.661                     13   58 JAN 11,1975
    .345     821.732                     13   59 JAN 11,1975
    .362     821.779                     14   00 JAN 11,1975
    .378     821.755                     14   01 JAN 11,1975
    .395     821.732                     14   02 JAN 11,1975
    .411     821.802                     14   03 JAN 11,1975
    .427     821.802                     14   04 JAN 11,1975
    .444     821.826                     14   05 JAN 11,1975
    .460     821.826                     14   06 JAN 11,1975
    .477     821.850                     14   07 JAN 11,1975
    .493     821.897                     14   08 JAN 11,1975
    .510     821.897                     14   09 JAN 11,1975
    .526     821.920                     14   10 JAN 11,1975
    .543     821.968                     14   11 JAN 11,1975
    .559     822.015                     14   12 JAN 11,1975
    .575     822.015                     14   13 JAN 11,1975
    .592     822.038                     14   14 JAN 11,1975
    .608     822.062                     14   14 JAN 11,1975
    .625     822.085                     14   15 JAN 11,1975
    .641     822.109                     14   16 JAN 11,1975
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JOB NUMBER
SPG-11210-JJ

DATE OF JOB
JANUARY 11, 1975

GAUGE/RUN NUMBER
71 DST NO,37 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
,658	822,109	14	17	JAN 11,1975	
,674	822,156	14	18	JAN 11,1975	
,690	822,156	14	19	JAN 11,1975	
,707	822,180	14	20	JAN 11,1975	
,723	822.203	14	21	JAN 11,1975	
,740	822,251	14	22	JAN 11,1975	
,756	822.251	14	23	JAN 11,1975	
,773	822,274	14	24	JAN 11,1975	
,789	822,274	14	25	JAN 11,1975	
,806	822,298	14	26	JAN 11,1975	
,822	822.321	14	27	JAN 11,1975	
,838	822,321	14	28	JAN 11,1975	
,855	822,392	14	29	JAN 11,1975	
,871	822.392	14	30	JAN 11,1975	
,888	822,416	14	31	JAN 11,1975	
,904	822,416	14	32	JAN 11,1975	
,921	822.439	14	33	JAN 11,1975	
,937	822.463	14	34	JAN 11,1975	
,954	822,486	14	35	JAN 11,1975	
,970	822,510	14	36	JAN 11,1975	
,986	822.534	14	37	JAN 11,1975	
1,003	822.534	14	38	JAN 11,1975	
1,019	822,557	14	39	JAN 11,1975	END RECOVERY
1,036	822.604	14	40	JAN 11,1975	
1,052	822,628	14	41	JAN 11,1975	
1,069	822,628	14	42	JAN 11,1975	
1,085	822,651	14	43	JAN 11,1975	
1.101	822,675	14	44	JAN 11,1975	
1,118	822.675	14	45	JAN 11,1975	
1,134	822,699	14	46	JAN 11,1975	
1.151	822,746	14	47	JAN 11,1975	
1,167	822.769	14	48	JAN 11,1975	
1,184	822,769	14	49	JAN 11,1975	
1,200	822.769	14	50	JAN 11,1975	
1,217	822.817	14	51	JAN 11,1975	
1,233	822,840	14	52	JAN 11,1975	
1,249	822.840	14	53	JAN 11,1975	
1,266	822,887	14	54	JAN 11,1975	
1.282	822,887	14	55	JAN 11,1975	
1,299	822,911	14	56	JAN 11,1975	START DOWN DP

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DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
1,315	822,934	14	57	JAN 11,1975	WITH 10 GPM
1,332	822,934	14	58	JAN 11,1975	
1,348	822,958	14	59	JAN 11,1975	
1,365	822,982	15	00	JAN 11,1975	
1,381	822,982	15	01	JAN 11,1975	
1,397	823.005	15	02	JAN 11,1975	
1,414	823,052	15	03	JAN 11,1975	
1,430	823,052	15	04	JAN 11,1975	
1,447	823,076	15	05	JAN 11,1975	
1,463	823.100	15	06	JAN 11,1975	
1,480	823,100	15	07	JAN 11,1975	
1,496	823.100	15	08	JAN 11,1975	
1,512	823.100	15	09	JAN 11,1975	
1,529	823.123	15	10	JAN 11,1975	
1,545	823.147	15	11	JAN 11,1975	
1,562	823.170	15	12	JAN 11,1975	
1,578	823.170	15	13	JAN 11,1975	
1,595	823,218	15	14	JAN 11,1975	
1,611	823,241	15	15	JAN 11,1975	
1,628	823,265	15	16	JAN 11,1975	
1,644	823,288	15	17	JAN 11,1975	
1,660	823,312	15	18	JAN 11,1975	
1,677	823,335	15	19	JAN 11,1975	
1,693	823,359	15	20	JAN 11,1975	
1,710	823,359	15	21	JAN 11,1975	
1,726	823,383	15	22	JAN 11,1975	
1,743	823,430	15	23	JAN 11,1975	
1.759	823,430	15	24	JAN 11,1975	
1,776	823.453	15	25	JAN 11,1975	
1,792	823,477	15	26	JAN 11,1975	
1,808	823,501	15	27	JAN 11,1975	
1,825	823,548	15	27	JAN 11,1975	
1,841	823,548	15	28	JAN 11,1975	
1,858	823,571	15	29	JAN 11,1975	
1.874	823,595	15	30	JAN 11,1975	
1,891	823,618	15	31	JAN 11,1975	
1,907	823,642	15	32	JAN 11,1975	
1,923	823,666	15	33	JAN 11,1975	
1,940	823,689	15	34	JAN 11,1975	
1,956	823,713	15	35	JAN 11,1975	

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PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
1.973	823,736	15	36	JAN 11,1975	
1,989	823,760	15	37	JAN 11,1975	
2.006	823.784	15	38	JAN 11,1975	
2,022	823,807	15	39	JAN 11,1975	
2,039	823,854	15	40	JAN 11,1975	
2,055	823,854	15	41	JAN 11,1975	DOWN DRILL
2.071	823.878	15	42	JAN 11,1975	PIPE WITH
2.088	823,925	15	43	JAN 11,1975	20 GPM
2,104	823,925	15	44	JAN 11,1975	
2,121	823.925	15	45	JAN 11,1975	
2,137	823,949	15	46	JAN 11,1975	
2,154	823,972	15	47	JAN 11,1975	
2,170	823,972	15	48	JAN 11,1975	
2,187	824,019	15	49	JAN 11,1975	
2,203	824.067	15	50	JAN 11,1975	
2,219	824,090	15	51	JAN 11,1975	
2.236	824,090	15	52	JAN 11,1975	
2,252	824,137	15	53	JAN 11,1975	
2.269	824,137	15	54	JAN 11,1975	
2,285	824,184	15	55	JAN 11,1975	
2,302	824,184	15	56	JAN 11,1975	DOWN DP WITH
2,318	824,232	15	57	JAN 11,1975	30 GPM
2.334	824,255	15	58	JAN 11,1975	
2,351	824,302	15	59	JAN 11,1975	
2,367	824,326	16	00	JAN 11,1975	
2,384	824.326	16	01	JAN 11,1975	
2,400	824,373	16	02	JAN 11,1975	
2,417	824.373	16	03	JAN 11,1975	
2,433	824,397	16	04	JAN 11,1975	
2,450	824,420	16	05	JAN 11,1975	
2.466	824,468	16	06	JAN 11,1975	
2,482	824,468	16	07	JAN 11,1975	
2,499	824,491	16	08	JAN 11,1975	
2,515	824,515	16	09	JAN 11,1975	
2,532	824,562	16	10	JAN 11,1975	
2,548	824,609	16	11	JAN 11,1975	DOWN DP WITH
2,565	824,633	16	12	JAN 11,1975	40 GPM
2,581	824,656	16	13	JAN 11,1975	
2,598	824.703	16	14	JAN 11,1975	
2,614	824,727	16	15	JAN 11,1975	

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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,630	824,751	16	16	JAN 11,1975	
2.647	824.751	16	17	JAN 11,1975	
2,663	824,633	16	18	JAN 11,1975	
2,680	824.845	16	19	JAN 11,1975	
2,696	824,892	16	20	JAN 11,1975	
2.713	824,916	16	21	JAN 11,1975	
2.729	824,986	16	22	JAN 11,1975	
2.745	825.010	16	23	JAN 11,1975	
2,762	825,034	16	24	JAN 11,1975	
2.778	825.104	16	25	JAN 11,1975	
2,795	825,151	16	26	JAN 11,1975	DOWN DP WITH
2.811	825,222	16	27	JAN 11,1975	60 GPM
2,828	825,246	16	28	JAN 11,1975	OVERFLOW START
2,844	825,364	16	29	JAN 11,1975	
2,861	825.434	16	30	JAN 11,1975	
2,877	825.552	16	31	JAN 11,1975	
2.893	825,694	16	32	JAN 11,1975	
2,910	825.741	16	33	JAN 11,1975	
2,926	825,812	16	34	JAN 11,1975	
2,943	826,048	16	35	JAN 11,1975	
2,959	826,189	16	36	JAN 11,1975	
2,976	826,378	16	37	JAN 11,1975	
2,992	826.590	16	38	JAN 11,1975	
3,009	826.732	16	39	JAN 11,1975	
3.025	826,850	16	39	JAN 11,1975	
3,041	826,944	16	40	JAN 11,1975	
3,058	827,015	16	41	JAN 11,1975	START DECLINE
3,074	827,085	16	42	JAN 11,1975	
3,091	827,109	16	43	JAN 11,1975	
3,107	827,180	16	44	JAN 11,1975	
3,124	827,227	16	45	JAN 11,1975	
3.140	827,203	16	46	JAN 11,1975	
3,156	827,109	16	47	JAN 11,1975	
3,173	827,038	16	48	JAN 11,1975	
3,189	826,968	16	49	JAN 11,1975	
3,206	826,873	16	50	JAN 11,1975	
3,222	826,826	16	51	JAN 11,1975	
3,239	826,755	16	52	JAN 11,1975	
3,255	826,732	16	53	JAN 11,1975	
3.272	826.637	16	54	JAN 11,1975	

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SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
3,288	826,567	16	55	JAN 11,1975	
3,304	826,519	16	56	JAN 11,1975	
3,321	826,496	16	57	JAN 11,1975	
3,337	826,425	16	58	JAN 11,1975	
3,354	826,378	16	59	JAN 11,1975	
3,370	826,354	17	00	JAN 11,1975	
3,387	826,331	17	01	JAN 11,1975	
3,403	826,307	17	02	JAN 11,1975	
3,420	826,284	17	03	JAN 11,1975	
3,436	826,236	17	04	JAN 11,1975	
3,452	826,236	17	05	JAN 11,1975	
3,469	826,213	17	06	JAN 11,1975	
3.485	826,189	17	07	JAN 11,1975	
3,502	826,189	17	08	JAN 11,1975	
3.518	826.166	17	09	JAN 11,1975	
3,535	826,142	17	10	JAN 11,1975	
3.551	826,166	17	11	JAN 11,1975	END DECLINE
3.567	826,166	17	12	JAN 11,1975	
3.584	826.142	17	13	JAN 11,1975	
3.600	826,118	17	14	JAN 11,1975	
3,617	826,118	17	15	JAN 11,1975	
3,633	826,166	17	16	JAN 11,1975	END OF TEST

222 POINTS REPORTED THIS RUN

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SPG-11210-JJ

DATE OF JOB
JANUARY 11, 1975

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	SORGHUM GULCH TRACT C-B
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

THIS GAUGE NUMBER 222 WITH 1400 LB ELEMENT INSIDE DRILL PIPE AT 2405 FT, AND THE PACKER WAS SET AT 2395 FT.

REFERENCE ELEVATION IS 7036 FT

INITIAL HYDROSTATIC WAS 821.58 PSI

FINAL HYDROSTATIC WAS 848.87 PSI

1500 FT. OF WATER PUT INTO PIPE AS PIPE WAS BEING RUN IN HOLE

260 POINTS REPORTED THIS JOB

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JOB NUMBER                                                    DATE OF JCB
SPG-11210-JJ                                             JANUARY 11, 1975

GAUGE/RUN NUMBER                                              DATE OF RUN
222    DST-37    INIT,OPEN

                                SPERRY-SUN
                 PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                     TIME      DATE             COMMENTS
    TIME      (PSI)                      HR MIN

    0,000    938,933                     13   04 JAN 11,1975   INITIAL OPEN
     ,033    525,319                     13   06 JAN 11,1975
     ,050    516,651                     13   07 JAN 11,1975
     ,067    509,483                     13   08 JAN 11,1975   END OPEN
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                         4 POINTS REPORTED THIS RUN
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JOB NUMBER
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DATE OF JOB
JANUARY 11, 1975

GAUGE/RUN NUMBER
222 DST-37 SHUT IN

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	509.484	13	08	JAN 11,1975	INITIAL CLOSE
.017	747.506	13	09	JAN 11,1975	
.034	729.254	13	10	JAN 11,1975	
.052	727.526	13	11	JAN 11,1975	
.069	726.661	13	12	JAN 11,1975	
.086	726.029	13	13	JAN 11,1975	
.103	725.398	13	14	JAN 11,1975	
.121	724.068	13	15	JAN 11,1975	
.138	722.439	13	16	JAN 11,1975	
.155	720.644	13	17	JAN 11,1975	
.172	719.281	13	18	JAN 11,1975	
.190	718.084	13	19	JAN 11,1975	
.207	716.821	13	20	JAN 11,1975	
.224	715.424	13	21	JAN 11,1975	
.241	714.194	13	22	JAN 11,1975	
.259	713.064	13	24	JAN 11,1975	
.276	711.933	13	25	JAN 11,1975	
.293	710.637	13	26	JAN 11,1975	
.310	709.673	13	27	JAN 11,1975	
.328	708.775	13	28	JAN 11,1975	
.345	707.778	13	29	JAN 11,1975	
.362	706.880	13	30	JAN 11,1975	
.379	706.016	13	31	JAN 11,1975	
.397	705.151	13	32	JAN 11,1975	
.414	704.354	13	33	JAN 11,1975	
.431	703.822	13	34	JAN 11,1975	
.448	702.857	13	35	JAN 11,1975	
.466	701.960	13	36	JAN 11,1975	
.463	701.328	13	37	JAN 11,1975	
.500	700.364	13	38	JAN 11,1975	END CLOSE

30 POINTS REPORTED THIS RUN

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222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	700.364	13	38	JAN 11,1975	FINAL OPEN
.016	466.710	13	39	JAN 11,1975	
.032	710.072	13	40	JAN 11,1975	
.048	657.743	13	41	JAN 11,1975	
.065	666.786	13	42	JAN 11,1975	
.081	666.853	13	43	JAN 11,1975	
.097	666.853	13	44	JAN 11,1975	
.113	666.819	13	45	JAN 11,1975	
.129	666.819	13	46	JAN 11,1975	
.145	666.819	13	47	JAN 11,1975	
.161	666.819	13	48	JAN 11,1975	
.178	666.886	13	49	JAN 11,1975	
.194	666.853	13	50	JAN 11,1975	
.210	666.819	13	51	JAN 11,1975	
.226	666.819	13	52	JAN 11,1975	
.242	666.819	13	53	JAN 11,1975	
.258	666.819	13	54	JAN 11,1975	
.275	666.853	13	54	JAN 11,1975	
.291	666.886	13	55	JAN 11,1975	
.307	666.819	13	56	JAN 11,1975	
.323	666.853	13	57	JAN 11,1975	
.339	666.819	13	58	JAN 11,1975	
.355	666.819	13	59	JAN 11,1975	
.371	666.786	14	00	JAN 11,1975	
.388	666.786	14	01	JAN 11,1975	
.404	666.753	14	02	JAN 11,1975	
.420	666.819	14	03	JAN 11,1975	
.436	666.886	14	04	JAN 11,1975	
.452	666.819	14	05	JAN 11,1975	
.468	666.819	14	06	JAN 11,1975	
.484	666.819	14	07	JAN 11,1975	
.501	666.853	14	08	JAN 11,1975	
.517	666.786	14	09	JAN 11,1975	
.533	666.853	14	10	JAN 11,1975	
.549	666.819	14	11	JAN 11,1975	
.565	666.753	14	12	JAN 11,1975	
.581	666.853	14	13	JAN 11,1975	
.597	666.653	14	14	JAN 11,1975	
.614	666.753	14	15	JAN 11,1975	
.630	666.786	14	16	JAN 11,1975	

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DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
.646	666.853	14	17	JAN 11,1975	
.662	666.753	14	18	JAN 11,1975	
.678	666.786	14	19	JAN 11,1975	
.694	666.786	14	20	JAN 11,1975	
.711	666.819	14	21	JAN 11,1975	
.727	666.720	14	22	JAN 11,1975	
.743	666.819	14	23	JAN 11,1975	
.759	666.720	14	24	JAN 11,1975	
.775	666.753	14	25	JAN 11,1975	
.791	666.620	14	25	JAN 11,1975	
.807	666.786	14	26	JAN 11,1975	
.824	666.786	14	27	JAN 11,1975	
.840	666.819	14	28	JAN 11,1975	
.856	666.720	14	29	JAN 11,1975	
.872	666.720	14	30	JAN 11,1975	
.888	666.786	14	31	JAN 11,1975	
.904	666.753	14	32	JAN 11,1975	
.920	666.753	14	33	JAN 11,1975	
.937	666.620	14	34	JAN 11,1975	
.953	666.720	14	35	JAN 11,1975	
.969	666.720	14	36	JAN 11,1975	
.985	666.786	14	37	JAN 11,1975	
1.001	666.687	14	38	JAN 11,1975	
1.017	666.786	14	39	JAN 11,1975	
1.033	666.753	14	40	JAN 11,1975	
1.050	666.653	14	41	JAN 11,1975	
1.066	666.720	14	42	JAN 11,1975	
1.082	666.753	14	43	JAN 11,1975	
1.098	666.819	14	44	JAN 11,1975	
1.114	666.687	14	45	JAN 11,1975	
1.130	666.687	14	46	JAN 11,1975	
1.147	666.786	14	47	JAN 11,1975	
1.163	666.786	14	48	JAN 11,1975	
1.179	666.753	14	49	JAN 11,1975	
1.195	666.687	14	50	JAN 11,1975	
1.211	666.786	14	51	JAN 11,1975	
1.227	666.720	14	52	JAN 11,1975	
1.243	666.653	14	53	JAN 11,1975	
1.260	666.653	14	54	JAN 11,1975	
1.276	666.786	14	55	JAN 11,1975	

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DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
1.292	666.786	14	56	JAN 11,1975	
1.308	666.687	14	56	JAN 11,1975	10 GPM INSIDE
1.324	666.753	14	57	JAN 11,1975	DRILL PIPE
1.340	666.653	14	58	JAN 11,1975	
1.356	666.653	14	59	JAN 11,1975	
1.373	666.853	15	00	JAN 11,1975	
1.389	667.119	15	01	JAN 11,1975	
1.405	681.514	15	02	JAN 11,1975	
1.421	696.508	15	03	JAN 11,1975	
1.437	710.803	15	04	JAN 11,1975	
1.453	724.633	15	05	JAN 11,1975	
1.469	742.286	15	06	JAN 11,1975	
1.486	758.543	15	07	JAN 11,1975	
1.502	774.402	15	08	JAN 11,1975	
1.518	789.628	15	09	JAN 11,1975	
1.534	802.594	15	10	JAN 11,1975	
1.550	818.984	15	11	JAN 11,1975	
1.566	837.169	15	12	JAN 11,1975	
1.583	848.505	15	13	JAN 11,1975	
1.599	823.239	15	14	JAN 11,1975	
1.615	835.473	15	15	JAN 11,1975	
1.631	887.203	15	16	JAN 11,1975	
1.647	902.562	15	17	JAN 11,1975	
1.663	932.483	15	18	JAN 11,1975	
1.679	932.417	15	19	JAN 11,1975	
1.696	924.770	15	20	JAN 11,1975	
1.712	921.911	15	21	JAN 11,1975	
1.728	921.446	15	22	JAN 11,1975	
1.744	921.080	15	23	JAN 11,1975	
1.760	920.681	15	24	JAN 11,1975	
1.776	921.180	15	25	JAN 11,1975	
1.792	922.609	15	26	JAN 11,1975	
1.809	924.205	15	27	JAN 11,1975	
1.825	925.169	15	27	JAN 11,1975	
1.841	925.901	15	28	JAN 11,1975	
1.857	926.466	15	29	JAN 11,1975	
1.873	926.832	15	30	JAN 11,1975	
1.889	926.931	15	31	JAN 11,1975	
1.905	927.496	15	32	JAN 11,1975	
1.922	928.195	15	33	JAN 11,1975	

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PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,938	929,258	15 34	JAN 11,1975	
1,954	930,422	15 35	JAN 11,1975	
1,970	931,519	15 36	JAN 11,1975	
1,986	932,650	15 37	JAN 11,1975	
2,002	933,281	15 38	JAN 11,1975	
2,019	933,514	15 39	JAN 11,1975	
2,035	933,913	15 40	JAN 11,1975	20 GPM INSIDE
2,051	934,345	15 41	JAN 11,1975	DRILL PIPE
2,067	934,744	15 42	JAN 11,1975	
2,083	935,675	15 43	JAN 11,1975	
2,099	940,362	15 44	JAN 11,1975	
2,115	942,956	15 45	JAN 11,1975	
2,132	945,216	15 46	JAN 11,1975	
2,148	947,809	15 47	JAN 11,1975	
2,164	949,837	15 48	JAN 11,1975	
2,180	952,198	15 49	JAN 11,1975	
2,196	954,126	15 50	JAN 11,1975	
2,212	955,290	15 51	JAN 11,1975	
2,228	956,420	15 52	JAN 11,1975	
2,245	957,584	15 53	JAN 11,1975	
2,261	958,481	15 54	JAN 11,1975	
2,277	959,412	15 55	JAN 11,1975	
2,293	960,343	15 56	JAN 11,1975	30 GPM INSIDE
2,309	961,307	15 57	JAN 11,1975	DRILL PIPE
2,325	962,105	15 58	JAN 11,1975	
2,341	963,102	15 58	JAN 11,1975	
2,358	965,695	15 59	JAN 11,1975	
2,374	969,751	16 00	JAN 11,1975	
2,390	973,309	16 01	JAN 11,1975	
2,406	976,168	16 02	JAN 11,1975	
2,422	978,728	16 03	JAN 11,1975	
2,438	980,656	16 04	JAN 11,1975	
2,454	982,351	16 05	JAN 11,1975	
2,471	984,147	16 06	JAN 11,1975	
2,487	985,709	16 07	JAN 11,1975	
2,503	987,238	16 08	JAN 11,1975	
2,519	988,568	16 09	JAN 11,1975	
2,535	989,965	16 10	JAN 11,1975	
2,551	991,062	16 11	JAN 11,1975	40 GPM INSIDE
2,568	992,292	16 12	JAN 11,1975	DRILL PIPE

JOB NUMBER
SPG-11210-JJ

DATE OF JOB
JANUARY 11, 1975

GAUGE/RUN NUMBER
222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,584	993,056	16	13	JAN 11,1975	
2,600	993,755	16	14	JAN 11,1975	
2,616	995,217	16	15	JAN 11,1975	
2,632	996,647	16	16	JAN 11,1975	
2,648	997,544	16	17	JAN 11,1975	
2,664	998,043	16	18	JAN 11,1975	
2,681	998,575	16	19	JAN 11,1975	
2,697	999,240	16	20	JAN 11,1975	
2,713	999,971	16	21	JAN 11,1975	
2,729	1000,470	16	22	JAN 11,1975	
2,745	1001,068	16	23	JAN 11,1975	
2,761	1001,667	16	24	JAN 11,1975	
2,777	1002,398	16	25	JAN 11,1975	
2,794	1003,296	16	26	JAN 11,1975	60 GPM INSIDE
2,810	1004,260	16	27	JAN 11,1975	DRILL PIPE
2,826	1005,490	16	28	JAN 11,1975	OVERFLOW START
2,842	1006,886	16	29	JAN 11,1975	
2,858	1007,252	16	29	JAN 11,1975	
2,874	1008,316	16	30	JAN 11,1975	
2,890	1009,812	16	31	JAN 11,1975	
2,907	1011,142	16	32	JAN 11,1975	
2,923	1012,272	16	33	JAN 11,1975	
2,939	1013,070	16	34	JAN 11,1975	
2,955	1014,134	16	35	JAN 11,1975	
2,971	1015,364	16	36	JAN 11,1975	
2,987	1016,328	16	37	JAN 11,1975	
3,004	1017,292	16	38	JAN 11,1975	
3,020	1018,223	16	39	JAN 11,1975	
3,036	1018,988	16	40	JAN 11,1975	
3,052	1019,786	16	41	JAN 11,1975	START DECLINE
3,068	1020,417	16	42	JAN 11,1975	
3,084	1020,883	16	43	JAN 11,1975	
3,100	1019,121	16	44	JAN 11,1975	
3,117	1014,533	16	45	JAN 11,1975	
3,133	1010,710	16	46	JAN 11,1975	
3,149	1007,618	16	47	JAN 11,1975	
3,165	1004,792	16	48	JAN 11,1975	
3,181	1002,132	16	49	JAN 11,1975	
3,197	999,705	16	50	JAN 11,1975	
3,213	997,279	16	51	JAN 11,1975	

JOB NUMBER
SPG-11210-JJ

DATE OF JOB
JANUARY 11, 1975

GAUGE/RUN NUMBER
222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
3,230	995,084	16	52	JAN 11,1975	
3,246	992,957	16	53	JAN 11,1975	
3,262	990,962	16	54	JAN 11,1975	
3,278	988,934	16	55	JAN 11,1975	
3,294	987,039	16	56	JAN 11,1975	
3,310	985,244	16	57	JAN 11,1975	
3,326	983,515	16	58	JAN 11,1975	
3,343	981,786	16	59	JAN 11,1975	
3,359	980,523	17	00	JAN 11,1975	
3,375	978,960	17	00	JAN 11,1975	
3,391	977,498	17	01	JAN 11,1975	
3,407	975,968	17	02	JAN 11,1975	
3,423	974,805	17	03	JAN 11,1975	
3,440	973,309	17	04	JAN 11,1975	
3,456	971,879	17	05	JAN 11,1975	
3,472	970,516	17	06	JAN 11,1975	
3,488	969,020	17	07	JAN 11,1975	
3,504	967,723	17	08	JAN 11,1975	
3,520	966,360	17	09	JAN 11,1975	
3,536	964,997	17	10	JAN 11,1975	
3,553	963,767	17	11	JAN 11,1975	END DECLINE
3,569	962,404	17	12	JAN 11,1975	
3,585	961,174	17	13	JAN 11,1975	
3,601	959,944	17	14	JAN 11,1975	
3,617	958,714	17	15	JAN 11,1975	
3,633	957,484	17	16	JAN 11,1975	END TEST

226 POINTS REPORTED THIS RUN

MPT Series 1 - SG-17

MULTI-PACKER TEST SERIES NO. 1

SG-17

JOHNSTON

Schlumberger

technical report

RECEIVED

DEC 16 1974

A. J. ROGERS

II B-1590

F.R. #09106 C

COMPANY ATLANTIC-RICHFIELD COMPANY

WELL FEDERAL S-G #17

TEST NO. MPT #1-4

COUNTY RIO BLANCO

STATE COLORADO

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
RE-CYCLED TOOL (12-7-74)	1926	-	-
OPENED TOOL	1935	-	-
CLOSED FOR INITIAL SHUT-IN	1936	-	-
FINISHED SHUT-IN	2006	-	-
RE-OPENED TOOL	2016	-	-
CLOSED FOR FINAL SHUT-IN	2304	-	-
PULLED PACKER LOOSE	2331	-	-
RE-SET PACKERS (12-8-74)	0012	-	-
RE-OPENED TOOL	0024	-	-
CLOSED FOR INITIAL SHUT-IN	0035	-	-
FINISHED SHUT-IN	0108	-	-
RE-OPENED TOOL	0119	-	-
CLOSED FOR FINAL SHUT-IN	0607	-	-
PULLED PACKERS LOOSE	0621	-	-
RE-SET PACKERS	0646	-	-
RE-OPENED TOOL	0702	-	-
CLOSED FOR INITIAL SHUT-IN	0713	-	-
RE-OPENED TOOL	0743	-	-
CLOSED FOR FINAL SHUT-IN	1131	-	-
PULLED PACKERS LOOSE	1145	-	-
RE-SET PACKERS	1241	-	-
RE-OPENED TOOL	1258	-	-
CLOSED FOR INITIAL SHUT-IN	1312	-	-
RE-OPENED TOOL	1342	-	-
CLOSED FOR FINAL SHUT-IN	-	-	-
PULLED PACKERS LOOSE	-	-	-

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type WATER - FOAM Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E.-P.C.T.
Formation Tested -
Elevation 7036 Ft.
Net Productive Interval - Ft.
Estimated Porosity - %
All Depths Measured From GROUND LEVEL
Total Depth 1470 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length 298' I.D. -
Drill Pipe Length - I.D. -
Packer Depth(s) - Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure ______ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas ______
cc. Oil ______
cc. Water ______
cc. Mud ______
Tot. Liquid cc. ______
Gravity ______ °API @ ______ °F.
Gas/Oil Ratio ______ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: PRESSURE INSTRUMENTS ON THIS TEST WERE RUN BY SPERRY - SUN.

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH
Well FEDERAL S-G #17 Location 436' FWL & 181' FSL SEC. 16-3S-90W
Test Interval - II B-1591 Test # MPT #1-4 Date 12-7-74
County RIO BLANCO State COLORADO
Technician TAYLOR (VERNAL) Test Approved By MR. JERRY L. BUSSELL

Field Report No. 09136 C
No. Reports Requested 15 (14)

sperry-sun

POST OFFICE BOX 36363 HOUSTON, TEXAS 77036 (713) 494-3021

J. A. Fouché
President

→ JRM

December 16, 1974

RECEIVED
DEC 20 1974
A. L. ROGERS

Mr. Frederick R. Scheerer
Atlantic-Richfield Company
1500 Security Life Building
Denver, Colorado 80202

Dear Sir:

Enclosed is the original of our Precision Pressure Gauge Job SPG-11210-R performed on your Federal Sorghum Gulch, Well No. 17, Tract C-b, Sorghum Gulch Field, Piceance Creek Area, Rio Blanco County, Colorado on December 8, 1974. This was a multiple packer test with four different zones being tested:

	Zone #1	Zone #2	Zone #3	Zone #4
Gauge	MPT #1	MPT #2	MPT #3	MPT #4
42	1338	1215	1122	1082
168	1385	1262	1168	1128
88	1401	1278	1184	1143
209	1418	1295	1201	1161

Also enclosed are the charts for gauge numbers 42, 168, 88 and 209 with Field Data Sheets.

Distribution is being made according to the attached mailing list.

Thank you for this opportunity to be of service.

Very truly yours,

Carl Kisinger, Jr.

Carl Kisinger, Jr.
Manager, Pressure Services

CK:pm
Enclosures

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 42 WITH 1000 LB. ELEMENT

GAUGE DEPTH IS 1338 FT. OUTSIDE D.P.

INSIDE ANNULUS

TEST INTERVAL IS FROM SURFACE TO

1372 FT.(PACKER DEPTH) INSIDE ANNULUS

GROUND LEVEL REFERENCE IS 7036 FT.

INITIAL HYDROSTATIC IS 367.32 PSI

66 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
02 MPT NO. 1

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	368,009	19 36	DEC 07,1974	MPT NO. 1 OPEN

1 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO. 1

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	368.009	19	36	DEC 07,1974	SHUT IN DEPTH
.063	367.232	19	40	DEC 07,1974	1338 FEET
.127	367.575	19	44	DEC 07,1974	
.190	367.095	19	47	DEC 07,1974	
.253	366.432	19	51	DEC 07,1974	
.317	367.461	19	55	DEC 07,1974	
.380	367.643	19	59	DEC 07,1974	
.443	367.689	20	03	DEC 07,1974	
.507	367.826	20	06	DEC 07,1974	
.570	367.826	20	10	DEC 07,1974	
.633	368.009	20	14	DEC 07,1974	END SHUT-IN

11 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO. 1

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	368.009	20	14	DEC 07,1974	FINAL OPEN
.063	367.712	20	18	DEC 07,1974	
.127	367.918	20	22	DEC 07,1974	
.190	368.123	20	25	DEC 07,1974	
.253	368.146	20	29	DEC 07,1974	
.317	368.169	20	33	DEC 07,1974	
.380	368.238	20	37	DEC 07,1974	
.443	368.260	20	41	DEC 07,1974	
.507	368.306	20	44	DEC 07,1974	
.570	368.329	20	48	DEC 07,1974	
.633	368.352	20	52	DEC 07,1974	
.697	368.397	20	56	DEC 07,1974	
.760	368.397	21	00	DEC 07,1974	
.823	368.443	21	03	DEC 07,1974	
.887	368.489	21	07	DEC 07,1974	
.950	368.489	21	11	DEC 07,1974	
1.013	368.535	21	15	DEC 07,1974	4.6 GPM INSIDE
1.077	368.557	21	19	DEC 07,1974	DRILL PIPE
1.140	368.557	21	22	DEC 07,1974	
1.203	368.603	21	26	DEC 07,1974	
1.267	368.626	21	30	DEC 07,1974	
1.330	368.672	21	34	DEC 07,1974	DECLINE
1.393	368.695	21	38	DEC 07,1974	10 GPM INSIDE
1.457	368.695	21	41	DEC 07,1974	DRILL PIPE
1.520	368.740	21	45	DEC 07,1974	
1.584	368.786	21	49	DEC 07,1974	
1.647	368.809	21	53	DEC 07,1974	
1.710	368.832	21	57	DEC 07,1974	
1.774	368.877	22	00	DEC 07,1974	DECLINE
1.837	368.900	22	04	DEC 07,1974	
1.900	368.877	22	08	DEC 07,1974	
1.964	368.900	22	12	DEC 07,1974	
2.027	368.900	22	16	DEC 07,1974	
2.090	368.900	22	19	DEC 07,1974	30 GPM ANNULUS
2.154	370.820	22	23	DEC 07,1974	
2.217	375.458	22	27	DEC 07,1974	
2.280	378.474	22	31	DEC 07,1974	
2.344	380.737	22	35	DEC 07,1974	60 GPM ANNULUS
2.407	384.667	22	38	DEC 07,1974	
2.470	388.643	22	42	DEC 07,1974	

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO. 1

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2.534	393.099	22 46	DEC 07,1974	
2.597	399.817	22 50	DEC 07,1974	
2.660	391.156	22 54	DEC 07,1974	
2.724	383.707	22 57	DEC 07,1974	
2.787	379.297	23 01	DEC 07,1974	
2.850	373.493	23 05	DEC 07,1974	
2.914	372.442	23 09	DEC 07,1974	
2.977	371.734	23 13	DEC 07,1974	
3.040	371.231	23 16	DEC 07,1974	
3.104	370.934	23 20	DEC 07,1974	
3.167	370.660	23 24	DEC 07,1974	END FLOW

51 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO. 1

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	370.660	23	24	DEC 07,1974	FINAL SHUT-IN
.061	363.736	23	28	DEC 07,1974	UNSEAT PACKER
.122	362.228	23	31	DEC 07,1974	END MPT NO. 1

3 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 42 WITH 1000 LB. ELEMENT

GAUGE DEPTH IS 1215 FT. OUTSIDE D. P.

INSIDE ANNULUS

TEST INTERVAL IS FROM SURFACE TO

1249 (PACKER DEPTH) INSIDE ANNULUS

GROUND LEVEL REFERENCE IS 7036 FT.

93 POINTS REPORTED THIS JOB

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JOB NUMBER                                                                  DATE OF JOB
SPG-11210-R                                                          12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                            DATE OF RUN
42  MPT  NO. 2                                                                 12-14-74

                                      SPERRY-SUN
                      PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA    PRESSURE                          TIME      DATE              COMMENTS
    TIME      (PSI)                           HR MIN

    0,000     312,842                         00  24 DEC 08,1974    MPT NO.2 OPEN
     ,092     313,801                         00  30 DEC 08,1974    TEST DEPTH
     ,183     314,807                         00  35 DEC 08,1974    1215 FT.
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                              3 POINTS REPORTED THIS RUN

                                       PAGE  2
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JOB NUMBER                                                             DATE OF JOB
SPG-11210-R                                                    12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                       DATE OF RUN
42  MPT NO. 2                                                             12-14-74

                                  SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT

      DELTA    PRESSURE                      TIME      DATE             COMMENTS
      TIME      (PSI)                       HR MIN

      0.000     314.807                     00   35 DEC 08,1974   SHUT IN
       .067     315.355                     00   39 DEC 08,1974
       .133     315.926                     00   43 DEC 08,1974
       .200     316.063                     00   47 DEC 08,1974
       .267     316.086                     00   51 DEC 08,1974
       .333     314.921                     00   55 DEC 08,1974
       .400     315.378                     00   59 DEC 08,1974
       .467     315.744                     01   03 DEC 08,1974
       .533     315.446                     01   07 DEC 08,1974
       .600     315.424                     01   11 DEC 08,1974
       .667     315.446                     01   15 DEC 08,1974
       .733     315.172                     01   19 DEC 08,1974   END SHUT IN
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12 POINTS REPORTED THIS RUN

JOB NUMBER
8PG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO, 2

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	315,172	01	19	DEC 08,1974	FINAL OPEN
,066	315,606	01	23	DEC 08,1974	
,132	315,835	01	27	DEC 08,1974	
,197	315,858	01	31	DEC 08,1974	
,263	315,903	01	35	DEC 08,1974	
,329	315,949	01	39	DEC 08,1974	
,395	315,995	01	43	DEC 08,1974	
,460	316,018	01	47	DEC 08,1974	
,526	316,018	01	51	DEC 08,1974	
,592	316,041	01	55	DEC 08,1974	
,658	316,041	01	58	DEC 08,1974	
,723	316,063	02	02	DEC 08,1974	
,789	316,086	02	06	DEC 08,1974	
,855	316,109	02	10	DEC 08,1974	
,921	316,132	02	14	DEC 08,1974	
,986	316,132	02	18	DEC 08,1974	
1,052	316,155	02	22	DEC 08,1974	
1,118	316,155	02	26	DEC 08,1974	
1,184	316,178	02	30	DEC 08,1974	
1,249	316,178	02	34	DEC 08,1974	
1,315	316,201	02	38	DEC 08,1974	
1,381	316,201	02	42	DEC 08,1974	
1,447	316,246	02	46	DEC 08,1974	
1,512	316,223	02	50	DEC 08,1974	
1,578	316,269	02	54	DEC 08,1974	
1,644	316,246	02	58	DEC 08,1974	
1,710	316,292	03	02	DEC 08,1974	
1,775	316,292	03	06	DEC 08,1974	
1,841	316,292	03	09	DEC 08,1974	
1,907	316,315	03	13	DEC 08,1974	
1,973	316,338	03	17	DEC 08,1974	
2,038	316,338	03	21	DEC 08,1974	
2,104	316,360	03	25	DEC 08,1974	
2,170	316,360	03	29	DEC 08,1974	
2,236	316,360	03	33	DEC 08,1974	
2,301	316,383	03	37	DEC 08,1974	
2,367	316,383	03	41	DEC 08,1974	
2,433	316,383	03	45	DEC 08,1974	
2,499	316,452	03	49	DEC 08,1974	30 GPM ANNULUS
2,564	316,475	03	53	DEC 08,1974	

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO, 2

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,630	322,210	03	57	DEC 08,1974	
2,696	325,341	04	01	DEC 08,1974	
2,762	327,397	04	05	DEC 08,1974	
2,827	333,727	04	09	DEC 08,1974	60 GPM ANNULUS
2,893	347,186	04	13	DEC 08,1974	
2,959	362,616	04	17	DEC 08,1974	
3,025	373,379	04	20	DEC 08,1974	
3,090	380,988	04	24	DEC 08,1974	
3,156	386,541	04	28	DEC 08,1974	
3,222	385,055	04	32	DEC 08,1974	DECLINE
3,288	367,781	04	36	DEC 08,1974	
3,353	351,413	04	40	DEC 08,1974	
3,419	340.605	04	44	DEC 08,1974	
3,485	331,853	04	48	DEC 08,1974	
3,551	326,460	04	52	DEC 08,1974	5 GPM INSIDE
3,616	323,330	04	56	DEC 08,1974	DP
3,682	321,433	05	00	DEC 08,1974	
3,748	320,336	05	04	DEC 08,1974	
3,814	319,651	05	08	DEC 08,1974	
3,879	319,194	05	12	DEC 08,1974	10 GPM INSIDE
3,945	319,080	05	16	DEC 08,1974	DP
4,011	319,034	05	20	DEC 08,1974	
4,077	319,034	05	24	DEC 08,1974	
4,142	319,034	05	28	DEC 08,1974	
4,208	319,057	05	31	DEC 08,1974	30 GPM INSIDE
4,274	319,560	05	35	DEC 08,1974	DP
4,340	320,039	05	39	DEC 08,1974	
4,405	320,451	05	43	DEC 08,1974	
4,471	320,839	05	47	DEC 08,1974	DECLINE
4,537	320,656	05	51	DEC 08,1974	
4,603	319,948	05	55	DEC 08,1974	
4,668	319,262	05	59	DEC 08,1974	
4,734	318,851	06	03	DEC 08,1974	
4,800	318,577	06	07	DEC 08,1974	END FLOW

74 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO. 2

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

```
DELTA   PRESSURE                  TIME     DATE              COMMENTS
TIME     (PSI)                   HR MIN

0,000    318,609                 06  07 DEC 08,1974   FINAL SHUT-IN
 ,078    317,167                 06  12 DEC 08,1974
 ,156    317,418                 06  16 DEC 08,1974
 ,233    313,962                 06  21 DEC 08,1974   END TEST MPT-2
```

4 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 42 WITH 1000 LB. ELEMENT

GAUGE DEPTH IS 1122 FT. OUTSIDE D. P.

INSIDE ANNULUS

TEST INTERVAL IS FROM SURFACE TO

1155 (PACKER DEPTH) INSIDE ANNULUS

GROUND LEVEL REFERENCE IS 7036 FEET.

74 POINTS REPORTED THIS JOB

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JOB NUMBER                                                              DATE OF JOB
SPG-11210-R                                                 12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                        DATE OF RUN
42  MPT  NO. 3                                                             12-14-74

                                  SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                      TIME     DATE              COMMENTS
    TIME      (PSI)                       HR MIN

    0.000    276.555                      07  02 DEC 08,1974   MPT NO. 3 START
     .061    276.853                      07  06 DEC 08,1974   AT 1122 FEET
     .122    277.173                      07  09 DEC 08,1974
     .183    277.494                      07  13 DEC 08,1974   END OPEN
```

4 POINTS REPORTED THIS RUN

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JOB NUMBER                                                  DATE OF JOB
SPG-11210-R                                          12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                            DATE OF RUN
42 MPT  NO, 3                                                  12-14-74

                              SPERRY-SUN
             PRECISION SUBSURFACE PRESSURE GAUGE REPORT

   DELTA   PRESSURE              TIME     DATE            COMMENTS
   TIME     (PSI)               HR MIN

   0,000    277,494             07   13 DEC 08,1974   SHUT-IN INIT,
    ,063    277,631             07   17 DEC 08,1974
    ,125    277,792             07   21 DEC 08,1974
    ,188    276,967             07   24 DEC 08,1974
    ,250    277,128             07   28 DEC 08,1974
    ,313    277,311             07   32 DEC 08,1974
    ,375    276,830             07   36 DEC 08,1974
    ,438    276.945             07   39 DEC 08,1974
    ,500    277,128             07   43 DEC 08,1974   END SHUT-IN
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                    9 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO, 3

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	277,128	07	43	DEC 08,1974	FINAL OPEN
,068	277,288	07	47	DEC 08,1974	
,136	277,311	07	51	DEC 08,1974	
,204	277,357	07	55	DEC 08,1974	
,271	277,357	07	59	DEC 08,1974	
,339	277,380	08	03	DEC 08,1974	
,407	277,380	08	07	DEC 08,1974	20 GPM ANNULUS
,475	279,554	08	11	DEC 08,1974	
,543	285,735	08	16	DEC 08,1974	
,611	290,726	08	20	DEC 08,1974	
,679	295,281	08	24	DEC 08,1974	
,746	299,150	08	28	DEC 08,1974	40 GPM ANNULUS
,814	303,431	08	32	DEC 08,1974	
,882	321,631	08	36	DEC 08,1974	
,950	336,465	08	40	DEC 08,1974	
1,018	347,087	08	44	DEC 08,1974	
1,086	358,052	08	48	DEC 08,1974	60 GPM ANNULUS
1,154	366,866	08	52	DEC 08,1974	
1,221	373.299	08	56	DEC 08,1974	
1,289	378,747	09	00	DEC 08,1974	
1,357	383,097	09	04	DEC 08,1974	
1,425	387,103	09	08	DEC 08,1974	DECLINE
1,493	380,716	09	13	DEC 08,1974	
1,561	369,087	09	17	DEC 08,1974	
1,629	359,563	09	21	DEC 08,1974	
1,696	350,590	09	25	DEC 08,1974	
1,764	344,157	09	29	DEC 08,1974	
1,832	338,205	09	33	DEC 08,1974	
1,900	331,818	09	37	DEC 08,1974	5 GPM INSIDE
1,968	325,683	09	41	DEC 08,1974	DRILL PIPE
2,036	319,868	09	45	DEC 08,1974	
2,104	314,076	09	49	DEC 08,1974	
2,171	309,704	09	53	DEC 08,1974	
2,239	306,018	09	57	DEC 08,1974	10 GPM INSIDE
2,307	302,767	10	01	DEC 08,1974	DRILL PIPE
2,375	299,677	10	05	DEC 08,1974	
2,443	296,792	10	10	DEC 08,1974	
2,511	294,068	10	14	DEC 08,1974	
2,579	291,779	10	18	DEC 08,1974	20 GPM INSIDE
2,646	289,970	10	22	DEC 08,1974	DRILL PIPE

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
42 MPT NO. 3

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2.714	288.482	10	26	DEC 08,1974	
2.782	287.361	10	30	DEC 08,1974	
2.850	286.262	10	34	DEC 08,1974	19 GPM INSIDE
2.918	285.369	10	38	DEC 08,1974	DRILL PIPE
2.986	284.682	10	42	DEC 08,1974	
3.054	284.087	10	46	DEC 08,1974	
3.121	283.560	10	50	DEC 08,1974	
3.189	283.148	10	54	DEC 08,1974	DECLINE
3.257	282.782	10	58	DEC 08,1974	
3.325	282.485	11	02	DEC 08,1974	
3.393	282.187	11	07	DEC 08,1974	
3.461	281.912	11	11	DEC 08,1974	
3.529	281.615	11	15	DEC 08,1974	
3.596	281.340	11	19	DEC 08,1974	
3.664	281.065	11	23	DEC 08,1974	
3.732	280.836	11	27	DEC 08,1974	
3.800	280.676	11	31	DEC 08,1974	END FLOW

57 POINTS REPORTED THIS RUN

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JOB NUMBER                                                                 DATE OF JOB
SPG-11210-R                                                         12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                           DATE OF RUN
42  MPT  NO. 3                                                                12-14-74

                                    SPERRY-SUN
                      PRECISION SUBSURFACE PRESSURE GAUGE REPORT

     DELTA    PRESSURE                  TIME      DATE              COMMENTS
     TIME      (PSI)                   HR MIN

     0.000     280,676                 11  31 DEC 08,1974   FINAL SHUT-IN
      .078     279,211                 11  36 DEC 08,1974
      .156     279,234                 11  40 DEC 08,1974
      .233     279,234                 11  45 DEC 08,1974   END TEST MPT-3
```

4 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 42 WITH 1000 LB. ELEMENT

GAUGE DEPTH IS 1082 FT. OUTSIDE D. P.

INSIDE ANNULUS

TEST INTERVAL IS FROM SURFACE TO

1115 (PACKER DEPTH) INSIDE ANNULUS

GROUND LEVEL REFERENCE IS 7036 FEET.

FINAL HYDROSTATIC IS 314.97

92 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JOB

GAUGE/RUN NUMBER
42 MPT NO. 4

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	257,103	12	58	DEC 08,1974	MPT NO.4 OPEN
,078	257,286	13	03	DEC 08,1974	TEST DEPTH
,156	257,537	13	07	DEC 08,1974	1082 FT.
,233	257,628	13	12	DEC 08,1974	END OPEN

4 POINTS REPORTED THIS RUN

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JOB NUMBER                                                        DATE OF JOB
8PG-11210-R

GAUGE/RUN NUMBER                                                  DATE OF RUN
42  MPT  NO, 4                                                       12-14-74

                                   SPERRY-SUN
                   PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                       TIME      DATE             COMMENTS
    TIME      (PSI)                        HR MIN

    0,000     257,628                      13   12 DEC 08,1974    SHUT IN
     ,063     257,697                      13   16 DEC 08,1974
     ,125     262,473                      13   20 DEC 08,1974
     ,188     257,491                      13   23 DEC 08,1974
     ,250     257,720                      13   27 DEC 08,1974
     ,313     256,509                      13   31 DEC 08,1974
     ,375     256,692                      13   35 DEC 08,1974
     ,438     256,943                      13   38 DEC 08,1974
     ,500     257,194                      13   42 DEC 08,1974    END SHUT IN



                        9 POINTS REPORTED THIS RUN

                                PAGE  3
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JOB NUMBER
8PG-11210-R

DATE OF JOB

GAUGE/RUN NUMBER
42 MPT NO. 4

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	257,194	13	42	DEC 08,1974	FINAL OPEN
,067	257,217	13	46	DEC 08,1974	
,134	257,263	13	50	DEC 08,1974	
,201	257,308	13	54	DEC 08,1974	
,268	257.308	13	58	DEC 08,1974	
,334	258,085	14	02	DEC 08,1974	
,401	264.369	14	06	DEC 08,1974	
,468	269,351	14	10	DEC 08,1974	20 GPM ANNULUS
,535	273.715	14	14	DEC 08,1974	
,602	331,030	14	18	DEC 08,1974	52 GPM ANNULUS
,669	284,432	14	22	DEC 08,1974	
,736	298,073	14	26	DEC 08,1974	DECLINE
,803	298,987	14	30	DEC 08,1974	
,869	294,235	14	34	DEC 08,1974	
,936	288,545	14	38	DEC 08,1974	
1,003	284,112	14	42	DEC 08,1974	
1,070	280,090	14	46	DEC 08,1974	
1,137	276,388	14	50	DEC 08,1974	
1,204	272,824	14	54	DEC 08,1974	
1,271	270,036	14	58	DEC 08,1974	
1,338	267.820	15	02	DEC 08,1974	
1,404	266,129	15	06	DEC 08,1974	
1,471	264,598	15	10	DEC 08,1974	
1,538	263,524	15	14	DEC 08,1974	
1,605	262,473	15	18	DEC 08,1974	
1,672	261,627	15	22	DEC 08,1974	
1,739	260,942	15	26	DEC 08,1974	
1,806	260.348	15	30	DEC 08,1974	
1,873	259.845	15	34	DEC 08,1974	
1,940	259.411	15	38	DEC 08,1974	
2,006	259,136	15	42	DEC 08,1974	
2,073	258.862	15	46	DEC 08,1974	
2,140	258,679	15	50	DEC 08,1974	21 GPM ANNULUS
2,207	265.992	15	54	DEC 08,1974	
2,274	273.806	15	58	DEC 08,1974	
2,341	280.570	16	02	DEC 08,1974	
2,408	285,483	16	06	DEC 08,1974	
2,475	290.373	16	10	DEC 08,1974	39 GPM ANNULUS
2,541	313.504	16	14	DEC 08,1974	
2,608	323,307	16	19	DEC 08,1974	

JOB NUMBER
SPG-11210-R

DATE OF JOB

GAUGE/RUN NUMBER
42 MPT NO. 4

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,675	330,413	16	23	DEC 08,1974	
2,742	340,902	16	27	DEC 08,1974	
2,809	353,538	16	31	DEC 08,1974	61 GPM ANNULUS
2,876	364,422	16	35	DEC 08,1974	
2,943	373,447	16	39	DEC 08,1974	
3,010	381,514	16	43	DEC 08,1974	
3,076	383,319	16	47	DEC 08,1974	
3,143	365,793	16	51	DEC 08,1974	DECLINE
3,210	353,881	16	55	DEC 08,1974	
3,277	344,466	16	59	DEC 08,1974	
3,344	335,578	17	03	DEC 08,1974	
3,411	327,740	17	07	DEC 08,1974	
3,478	321,936	17	11	DEC 08,1974	5 GPM INSIDE
3,545	316.178	17	15	DEC 08,1974	DRILL PIPE
3,612	310.122	17	19	DEC 08,1974	
3,678	304,296	17	23	DEC 08,1974	
3,745	298,736	17	27	DEC 08,1974	
3,812	293.321	17	31	DEC 08,1974	11 GPM INSIDE
3,879	289.002	17	35	DEC 08,1974	DRILL PIPE
3,946	285,574	17	39	DEC 08,1974	
4,013	282,489	17	43	DEC 08,1974	10 GPM INSIDE
4,080	279,885	17	47	DEC 08,1974	DRILL PIPE
4,147	277,394	17	51	DEC 08,1974	11 GPM INSIDE
4,213	274,469	17	55	DEC 08,1974	DRILL PIPE
4,280	272,390	17	59	DEC 08,1974	20 GPM INSIDE
4,347	270,790	18	03	DEC 08,1974	DRILL PIPE
4,414	270,219	18	07	DEC 08,1974	
4,481	269,808	18	11	DEC 08,1974	18 GPM INSIDE
4,548	269,442	18	15	DEC 08,1974	DRILL PIPE
4,615	268,939	18	19	DEC 08,1974	KEEP PIPE FULL
4,682	267,637	18	23	DEC 08,1974	
4,749	266,540	18	27	DEC 08,1974	
4,815	265,512	18	31	DEC 08,1974	
4,882	264,621	18	35	DEC 08,1974	
4,949	263,935	18	39	DEC 08,1974	
5,016	263,341	18	43	DEC 08,1974	
5,083	262,770	18	47	DEC 08,1974	
5,150	262,313	18	51	DEC 08,1974	
5,217	261,856	18	55	DEC 08,1974	END TEST MPT 4

79 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 168 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1385 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1372 FT.

(TOP PACKER DEPTH) TO 1387 FT.

(MIDDLE PACKER DEPTH)

INITIAL HYDROSTATIC IS 389.80 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

II B-1616

63 POINTS REPORTED THIS JOB

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-R                                                  12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                    DATE OF RUN
168  MPT  NO, 1                                                        12-14-74

                                 SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA   PRESSURE                          TIME     DATE             COMMENTS
    TIME     (PSI)                           HR MIN

    0.000    395,426                         19  36 DEC 07,1974   MPT NO. 1 OPEN
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                         1 POINTS REPORTED THIS RUN
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JOB NUMBER                                                  DATE OF JOB
SPG-11210-R                                          12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                            DATE OF RUN
168  MPT  NO. 1                                                12-14-74

                              SPERRY-SUN
            PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA    PRESSURE                     TIME     DATE           COMMENTS
   TIME      (PSI)                      HR MIN

   0.000     395.426                    19  36 DEC 07,1974   SHUT IN TEST
    .079     389.451                    19  41 DEC 07,1974   DEPTH 1385 FT.
    .158     389.510                    19  46 DEC 07,1974
    .237     389.569                    19  50 DEC 07,1974
    .317     389.569                    19  55 DEC 07,1974
    .396     389.686                    20  00 DEC 07,1974
    .475     389.686                    20  04 DEC 07,1974
    .554     389.510                    20  09 DEC 07,1974
    .633     389.510                    20  14 DEC 07,1974   END SHUT-IN
```

9 POINTS REPORTED THIS RUN

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-R                                                 12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                    DATE OF RUN
168  MPT NO. 1

                                  SPERRY-SUN
                   PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA    PRESSURE                     TIME      DATE             COMMENTS
   TIME      (PSI)                      HR MIN

   0.000    389.510                     20  14 DEC 07,1974    OPEN TO FLOW
    .066    360.280                     20  18 DEC 07,1974
    .132    388.573                     20  22 DEC 07,1974
    .198    388.866                     20  26 DEC 07,1974
    .264    388.983                     20  30 DEC 07,1974
    .330    388.983                     20  34 DEC 07,1974
    .396    389.100                     20  38 DEC 07,1974
    .462    389.217                     20  42 DEC 07,1974
    .528    389.159                     20  46 DEC 07,1974
    .594    389.159                     20  50 DEC 07,1974
    .660    389.159                     20  54 DEC 07,1974
    .726    389.217                     20  58 DEC 07,1974
    .792    389.276                     21  01 DEC 07,1974
    .858    389.276                     21  05 DEC 07,1974
    .924    389.334                     21  09 DEC 07,1974
    .990    391.560                     21  13 DEC 07,1974    4.6 GPM INSIDE
   1.056    393.083                     21  17 DEC 07,1974    DRILL PIPE
   1.122    393.200                     21  21 DEC 07,1974
   1.187    393.318                     21  25 DEC 07,1974
   1.253    393.435                     21  29 DEC 07,1974
   1.319    390.857                     21  33 DEC 07,1974    DECLINE
   1.385    393.610                     21  37 DEC 07,1974    10 GPM INSIDE
   1.451    400.698                     21  41 DEC 07,1974    DRILL PIPE
   1.517    401.811                     21  45 DEC 07,1974
   1.583    402.397                     21  49 DEC 07,1974
   1.649    403.627                     21  53 DEC 07,1974
   1.715    398.355                     21  57 DEC 07,1974    DECLINE
   1.781    390.506                     22  01 DEC 07,1974
   1.847    390.272                     22  05 DEC 07,1974
   1.913    390.213                     22  09 DEC 07,1974
   1.979    390.096                     22  13 DEC 07,1974    30 GPM ANNULUS
   2.045    390.096                     22  17 DEC 07,1974
   2.111    390.096                     22  21 DEC 07,1974
   2.177    390.096                     22  25 DEC 07,1974
   2.243    390.037                     22  29 DEC 07,1974
   2.309    390.037                     22  33 DEC 07,1974
   2.375    390.037                     22  36 DEC 07,1974    60 GPM ANNULUS
   2.441    390.037                     22  40 DEC 07,1974
   2.507    390.096                     22  44 DEC 07,1974
   2.573    390.096                     22  48 DEC 07,1974
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
168 MPT NO, 1

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME		DATE	COMMENTS
		HR	MIN		
2,639	389,979	22	52	DEC 07,1974	
2,705	389,979	22	56	DEC 07,1974	
2,771	390,096	23	00	DEC 07,1974	
2,837	389,979	23	04	DEC 07,1974	
2,903	389,920	23	08	DEC 07,1974	
2,969	389,862	23	12	DEC 07,1974	
3,035	389,862	23	16	DEC 07,1974	
3,101	389,803	23	20	DEC 07,1974	
3,167	389,803	23	24	DEC 07,1974	END FLOW

49 POINTS REPORTED THIS RUN

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-R                                                    12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                    DATE OF RUN
168  MPT NO. 1

                                   SPERRY-SUN
                   PRECISION SUBSURFACE PRESSURE GAUGE REPORT

   DELTA    PRESSURE                      TIME     DATE               COMMENTS
   TIME      (PSI)                       HR MIN

   0.000     389.803                     23  24 DEC 07,1974   FINAL SHUT-IN
    .039     392.790                     23  26 DEC 07,1974   MPT-1
    .078     391.267                     23  29 DEC 07,1974
    .117     390.974                     23  31 DEC 07,1974   UNSEAT PACKER
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                          4 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 168 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1262 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1249 FT.

(TOP PACKER DEPTH) TO 1265 FT.

(MIDDLE PACKER DEPTH)

GROUND LEVEL REFERENCE IS 7036 FT.

92 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
168 MPT NO. 2

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	346,281	00	24	DEC 08,1974	MPT NO. 2 OPEN
,061	357,703	00	28	DEC 08,1974	TOOL CYCLE
,122	347,101	00	31	DEC 08,1974	TEST 1262 FT.
,183	346,808	00	35	DEC 08,1974	END FLOW

4 POINTS REPORTED THIS RUN

JOB NUMBER BPG-11210-R	DATE OF JOB 12-7-74 TO 12-8-74
GAUGE/RUN NUMBER 168 MPT NO. 2	DATE OF RUN 12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	343,703	00	35	DEC 08,1974	INIT. SHUT-IN
.071	343,820	00	39	DEC 08,1974	
.142	346,046	00	43	DEC 08,1974	
.212	346.046	00	48	DEC 08,1974	
.283	345,988	00	52	DEC 08,1974	
.354	345,988	00	56	DEC 08,1974	
.425	346,046	01	00	DEC 08,1974	
.496	345,109	01	05	DEC 08,1974	
.567	344,816	01	09	DEC 08,1974	
.637	344,816	01	13	DEC 08,1974	

10 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
168 MPT NO. 2

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	344.816	01	19	DEC 08,1974	FINAL OPEN
.066	344.875	01	23	DEC 08,1974	
.132	344.816	01	27	DEC 08,1974	
.197	344.816	01	31	DEC 08,1974	
.263	344.816	01	35	DEC 08,1974	
.329	344.816	01	39	DEC 08,1974	
.395	344.933	01	43	DEC 08,1974	
.460	344.933	01	47	DEC 08,1974	
.526	344.933	01	51	DEC 08,1974	
.592	344.933	01	55	DEC 08,1974	
.658	344.933	01	58	DEC 08,1974	
.723	344.933	02	02	DEC 08,1974	
.789	344.992	02	06	DEC 08,1974	
.855	344.933	02	10	DEC 08,1974	
.921	344.992	02	14	DEC 08,1974	
.986	344.992	02	18	DEC 08,1974	
1.052	345.050	02	22	DEC 08,1974	
1.118	345.050	02	26	DEC 08,1974	
1.184	345.050	02	30	DEC 08,1974	
1.249	345.050	02	34	DEC 08,1974	
1.315	345.050	02	38	DEC 08,1974	
1.381	345.050	02	42	DEC 08,1974	
1.447	345.050	02	46	DEC 08,1974	
1.512	345.109	02	50	DEC 08,1974	
1.578	345.109	02	54	DEC 08,1974	
1.644	345.109	02	58	DEC 08,1974	
1.710	345.050	03	02	DEC 08,1974	
1.775	345.109	03	06	DEC 08,1974	
1.841	345.168	03	09	DEC 08,1974	
1.907	345.168	03	13	DEC 08,1974	
1.973	345.168	03	17	DEC 08,1974	
2.038	345.168	03	21	DEC 08,1974	
2.104	345.168	03	25	DEC 08,1974	
2.170	345.168	03	29	DEC 08,1974	
2.236	345.168	03	33	DEC 08,1974	
2.301	345.168	03	37	DEC 08,1974	
2.367	345.168	03	41	DEC 08,1974	
2.433	345.168	03	45	DEC 08,1974	
2.499	345.753	03	49	DEC 08,1974	30 GPM ANNULUS
2.564	346.339	03	53	DEC 08,1974	

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
168 MPT NO. 2

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2.630	346.691	03	57	DEC 08,1974	
2.696	347.159	04	01	DEC 08,1974	
2.762	348.038	04	05	DEC 08,1974	
2.827	349.151	04	09	DEC 08,1974	60 GPM ANNULUS
2.893	350.147	04	13	DEC 08,1974	
2.959	350.850	04	17	DEC 08,1974	
3.025	351.494	04	20	DEC 08,1974	
3.090	352.021	04	24	DEC 08,1974	
3.156	351.728	04	28	DEC 08,1974	DECLINE
3.222	350.908	04	32	DEC 08,1974	
3.288	350.088	04	36	DEC 08,1974	
3.353	349.327	04	40	DEC 08,1974	
3.419	348.624	04	44	DEC 08,1974	
3.485	352.665	04	48	DEC 08,1974	
3.551	352.665	04	52	DEC 08,1974	5 GPM INSIDE
3.616	352.373	04	56	DEC 08,1974	DRILL PIPE
3.682	352.197	05	00	DEC 08,1974	
3.748	354.423	05	04	DEC 08,1974	
3.814	360.515	05	08	DEC 08,1974	
3.879	361.393	05	12	DEC 08,1974	10 GPM INSIDE
3.945	361.569	05	16	DEC 08,1974	DRILL PIPE
4.011	361.745	05	20	DEC 08,1974	
4.077	380.431	05	24	DEC 08,1974	
4.142	409.192	05	28	DEC 08,1974	
4.208	414.815	05	31	DEC 08,1974	30 GPM INSIDE
4.274	421.434	05	35	DEC 08,1974	DRILL PIPE
4.340	418.915	05	39	DEC 08,1974	
4.405	357.352	05	43	DEC 08,1974	
4.471	348.975	05	47	DEC 08,1974	DECLINE
4.537	348.038	05	51	DEC 08,1974	
4.603	347.569	05	55	DEC 08,1974	
4.668	347.335	05	59	DEC 08,1974	
4.734	348.448	06	03	DEC 08,1974	
4.800	348.389	06	07	DEC 08,1974	END FLOW

74 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
168 MPT NO. 2

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	349.019	06	07	DEC 08,1974	FINAL SHUT IN
.078	348.025	06	12	DEC 08,1974	
.156	347.615	06	16	DEC 08,1974	
.233	347.381	06	21	DEC 08,1974	END TEST MPT 2

4 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 168 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1168 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1155 FT.

(TOP PACKER DEPTH) TO 1171 FT.

(MIDDLE PACKER DEPTH)

GROUND LEVEL REFERENCE IS 7036 FT.

74 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
168 MPT NO. 3

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

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DELTA    PRESSURE                TIME      DATE              COMMENTS
TIME      (PSI)                 HR MIN

0.000     305.980               07   02 DEC 08,1974    OPEN MPT-3
 .092     305.921               07   07 DEC 08,1974
 .183     305.980               07   13 DEC 08,1974    END OPEN
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3 POINTS REPORTED THIS RUN

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JOB NUMBER                                                        DATE OF JOB
SPG-11210-R                                                 12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                  DATE OF RUN
168  MPT NO. 3

                              SPERRY-SUN
                PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA    PRESSURE                  TIME    DATE             COMMENTS
    TIME      (PSI)                   HR MIN

    0,000    305,980                  07  13 DEC 08,1974   SHUT-IN
     ,125    306,331                  07  21 DEC 08,1974
     ,188    306,097                  07  24 DEC 08,1974
     ,250    305,980                  07  28 DEC 08,1974
     ,313    305,863                  07  32 DEC 08,1974
     ,375    305,746                  07  36 DEC 08,1974
     ,438    305,629                  07  39 DEC 08,1974
     ,500    305,570                  07  43 DEC 08,1974   END SHUT-IN
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                       8 POINTS REPORTED THIS RUN

                               PAGE  3
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
168 MPT NO. 3

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	305.570	07	43	DEC 08,1974	START FLOW
.066	305.746	07	47	DEC 08,1974	
.131	305.511	07	51	DEC 08,1974	
.197	305.511	07	55	DEC 08,1974	
.262	305.511	07	59	DEC 08,1974	
.328	305.511	08	03	DEC 08,1974	
.393	305.453	08	07	DEC 08,1974	30 GPM ANNULUS
.459	305.511	08	11	DEC 08,1974	
.524	305.629	08	14	DEC 08,1974	
.590	305.746	08	18	DEC 08,1974	
.656	305.804	08	22	DEC 08,1974	
.721	305.921	08	26	DEC 08,1974	40 GPM ANNULUS
.787	306.039	08	30	DEC 08,1974	
.852	306.214	08	34	DEC 08,1974	
.918	306.449	08	38	DEC 08,1974	
.983	306.624	08	42	DEC 08,1974	
1.049	306.859	08	46	DEC 08,1974	60 GPM ANNULUS
1.114	307.151	08	50	DEC 08,1974	
1.180	307.210	08	54	DEC 08,1974	
1.246	307.444	08	58	DEC 08,1974	
1.311	307.679	09	02	DEC 08,1974	
1.377	307.854	09	06	DEC 08,1974	DECLINE
1.442	307.796	09	10	DEC 08,1974	
1.508	307.854	09	13	DEC 08,1974	
1.573	307.913	09	17	DEC 08,1974	
1.639	307.854	09	21	DEC 08,1974	
1.704	307.737	09	25	DEC 08,1974	
1.770	307.679	09	29	DEC 08,1974	
1.836	307.620	09	33	DEC 08,1974	
1.901	316.524	09	37	DEC 08,1974	5 GPM INSIDE
1.967	323.787	09	41	DEC 08,1974	DRILL PIPE
2.032	327.419	09	45	DEC 08,1974	
2.098	329.411	09	49	DEC 08,1974	
2.163	331.754	09	53	DEC 08,1974	
2.229	350.088	09	57	DEC 08,1974	10 GPM INSIDE
2.294	361.042	10	01	DEC 08,1974	DRILL PIPE
2.360	368.540	10	05	DEC 08,1974	
2.426	373.226	10	09	DEC 08,1974	
2.491	364.146	10	12	DEC 08,1974	
2.557	355.829	10	16	DEC 08,1974	20 GPM INSIDE

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
168 MPT NO. 3

DATE OF RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2.622	372.171	10	20	DEC 08,1974	DRILL PIPE
2.688	384.707	10	24	DEC 08,1974	
2.753	456.229	10	28	DEC 08,1974	
2.819	458.337	10	32	DEC 08,1974	
2.884	461.149	10	36	DEC 08,1974	19 GPM INSIDE
2.950	463.844	10	40	DEC 08,1974	DRILL PIPE
3.016	466.245	10	44	DEC 08,1974	
3.081	445.919	10	48	DEC 08,1974	
3.147	393.669	10	52	DEC 08,1974	
3.212	356.707	10	56	DEC 08,1974	DECLINE
3.278	332.925	11	00	DEC 08,1974	
3.343	318.632	11	04	DEC 08,1974	
3.409	311.896	11	08	DEC 08,1974	
3.474	308.850	11	11	DEC 08,1974	
3.540	307.796	11	15	DEC 08,1974	
3.606	307.327	11	19	DEC 08,1974	
3.671	339.486	11	23	DEC 08,1974	
3.737	306.156	11	27	DEC 08,1974	
3.802	305.746	11	31	DEC 08,1974	END FLOW

59 POINTS REPORTED THIS RUN

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-R                                                   12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                    DATE OF RUN
168 MPT NO. 3

                              SPERRY-SUN
                PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA   PRESSURE                  TIME     DATE            COMMENTS
    TIME     (PSI)                   HR MIN

    0,000    332,840                 11  31 DEC 08,1974   FINAL SHUT IN
     ,078    318,504                 11  36 DEC 08,1974
     ,156    311.717                 11  40 DEC 08,1974
     ,233    308,733                 11  45 DEC 08,1974   END TEST MPT 3
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                     4 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 168 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1128 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1115 FT.

(TOP PACKER DEPTH) TO 1130 FT.

(MIDDLE PACKER DEPTH)

FINAL HYDROSTATIC IS 357.45 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

91 POINTS REPORTED THIS JOB

PAGE 1 OF 5 PAGES

JOB NUMBER
SPG-11210-R

DATE OF JO
12-7-74 TO 12-8-7

GAUGE/RUN NUMBER
168 MPT NO, 4

DATE OF RU

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0,000	284,189	12	58	DEC 08,1974	OPEN MPT NO. 4
.117	284,189	13	05	DEC 08,1974	DEPTH 1128 FT.
.233	283,897	13	12	DEC 08,1974	END OPEN

3 POINTS REPORTED THIS RUN

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JOB NUMBER                                                          DATE OF JO
SPG-11210-R                                                   12-7-74 TO 12-8-7

GAUGE/RUN NUMBER                                                    DATE OF RU
168  MPT NO, 4

                                     SPERRY-SUN
                      PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                      TIME      DATE              COMMENTS
    TIME      (PSI)                       HR MIN

    0,000     283.897                     13   12 DEC 08,1974    END SHUT-IN
     ,063     283,545                     13   16 DEC 08,1974
     ,125     281,436                     13   20 DEC 08,1974
     ,188     283,955                     13   23 DEC 08,1974
     ,250     284,189                     13   27 DEC 08,1974
     ,313     284,189                     13   31 DEC 08,1974
     ,375     284,131                     13   35 DEC 08,1974
     ,438     298,365                     13   38 DEC 08,1974
     ,500     287,118                     13   42 DEC 08,1974    END SHUT-IN
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                            9 POINTS REPORTED THIS RUN
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JOB NUMBER
8PG-11210-R

DATE OF JO
12-7-74 TO 12-8-7

GAUGE/RUN NUMBER
168 MPT NO. 4

DATE OF RU

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	287,118	13	42	DEC 08,1974	START FLOW
,067	284.365	13	46	DEC 08,1974	
,134	284,248	13	50	DEC 08,1974	
,201	284,189	13	54	DEC 08,1974	
,268	284,189	13	58	DEC 08,1974	
,334	284,189	14	02	DEC 08,1974	
,401	284,131	14	06	DEC 08,1974	
,468	284.189	14	10	DEC 08,1974	20 GPM ANNULUS
,535	284,189	14	14	DEC 08,1974	
,602	284,189	14	18	DEC 08,1974	52 GPM ANNULUS
,669	284.189	14	22	DEC 08,1974	
,736	284,189	14	26	DEC 08,1974	DECLINE
,803	284,307	14	30	DEC 08,1974	
,869	284,307	14	34	DEC 08,1974	
,936	284,307	14	38	DEC 08,1974	
1,003	284,189	14	42	DEC 08,1974	
1,070	284,248	14	46	DEC 08,1974	
1,137	284.365	14	50	DEC 08,1974	
1,204	284.307	14	54	DEC 08,1974	
1,271	284.307	14	58	DEC 08,1974	
1,338	284.307	15	02	DEC 08,1974	
1,404	284.365	15	06	DEC 08,1974	
1,471	284,365	15	10	DEC 08,1974	
1,538	284.365	15	14	DEC 08,1974	
1,605	284,365	15	18	DEC 08,1974	
1,672	284.365	15	22	DEC 08,1974	
1,739	284,365	15	26	DEC 08,1974	
1,806	284.307	15	30	DEC 08,1974	
1,873	284.424	15	34	DEC 08,1974	
1,940	284,365	15	38	DEC 08,1974	
2,006	284,365	15	42	DEC 08,1974	
2,073	284.365	15	46	DEC 08,1974	
2,140	284,424	15	50	DEC 08,1974	21 GPM ANNULUS
2,207	284,424	15	54	DEC 08,1974	
2,274	284,424	15	58	DEC 08,1974	
2,341	284,424	16	02	DEC 08,1974	
2,408	284,424	16	06	DEC 08,1974	
2,475	284.541	16	10	DEC 08,1974	39 GPM ANNULUS
2,541	284,541	16	14	DEC 08,1974	
2,608	284.482	16	18	DEC 08,1974	

JOB NUMBER
SPG-11210-R

DATE OF JO
12-7-74 TO 12-8-7

GAUGE/RUN NUMBER
168 MPT NO. 4

DATE OF RU

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,675	284.482	16	23	DEC 08,1974	
2,742	284.600	16	27	DEC 08,1974	
2,809	284.600	16	31	DEC 08,1974	61 GPM ANNULUS
2,876	284.541	16	35	DEC 08,1974	
2,943	284.717	16	39	DEC 08,1974	
3,010	284.717	16	43	DEC 08,1974	
3,076	284.717	16	47	DEC 08,1974	
3,143	284.717	16	51	DEC 08,1974	DECLINE
3,210	284.834	16	55	DEC 08,1974	
3,277	284.834	16	59	DEC 08,1974	
3,344	284.834	17	03	DEC 08,1974	
3,411	284.834	17	07	DEC 08,1974	
3,478	299.595	17	11	DEC 08,1974	5 GPM INSIDE
3,545	309.026	17	15	DEC 08,1974	DRILL PIPE
3,612	315.059	17	19	DEC 08,1974	
3,678	318.984	17	23	DEC 08,1974	
3,745	327.712	17	27	DEC 08,1974	
3,812	357.469	17	31	DEC 08,1974	11 GPM INSIDE
3,879	382.891	17	35	DEC 08,1974	DRILL PIPE
3,946	396.012	17	39	DEC 08,1974	
4,013	396.656	17	43	DEC 08,1974	10 GPM INSIDE
4,080	410.188	17	47	DEC 08,1974	DRILL PIPE
4,147	427.468	17	51	DEC 08,1974	11 GPM INSIDE
4,213	455.233	17	55	DEC 08,1974	DRILL PIPE
4,280	464.839	17	59	DEC 08,1974	20 GPM INSIDE
4,347	465.191	18	03	DEC 08,1974	DRILL PIPE
4,414	465.542	18	07	DEC 08,1974	
4,481	466.187	18	11	DEC 08,1974	18 GPM INSIDE
4,548	424.832	18	15	DEC 08,1974	DRILL PIPE
4,615	384.531	18	19	DEC 08,1974	KEEP PIPE FULL
4,682	349.151	18	23	DEC 08,1974	
4,749	321.093	18	27	DEC 08,1974	
4,815	301.118	18	31	DEC 08,1974	
4,882	289.169	18	35	DEC 08,1974	
4,949	285.478	18	39	DEC 08,1974	
5,016	285.302	18	43	DEC 08,1974	
5,083	285.244	18	47	DEC 08,1974	
5,150	285.244	18	51	DEC 08,1974	
5,217	285.068	18	55	DEC 08,1974	END FLOW

79 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT CB SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO.88 WITH 1000 LB. ELEMENT

GAUGE DEPTH IS 1401 FT.INSIDE DRILL PIPE

TEST INTERVAL IS FROM 1387 FT.

(MIDDLE PACKER DEPTH) TO 1403 FT.

(BOTTOM PACKER DEPTH)

INITIAL HYDROSTATIC IS 383.87 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

62 POINTS REPORTED THIS JOB

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-R                                                  12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                    DATE OF RUN
88  MPT NO. 1                                                          12-14-74

                                    SPERRY-SUN
                    PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                         TIME     DATE              COMMENTS
    TIME      (PSI)                          HR MIN

    0.000     385.509                        19  36 DEC 07,1974   MPT NO.1 OPEN
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                             1 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
88 MPT NO, 1

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	385,509	19	36	DEC 07,1974	SHUT IN TEST
,070	385,416	19	40	DEC 07,1974	DEPTH 1401 FT
,141	385,486	19	44	DEC 07,1974	
,211	385,603	19	49	DEC 07,1974	
,281	385,673	19	53	DEC 07,1974	
,352	385,649	19	57	DEC 07,1974	
,422	385,579	20	01	DEC 07,1974	
,493	385,673	20	06	DEC 07,1974	
,563	385,579	20	10	DEC 07,1974	
,633	384,480	20	14	DEC 07,1974	END SHUT IN

10 POINTS REPORTED THIS RUN

JOB NUMBER
BPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
88 MPT NO, 1

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	384,480	20	14	DEC 07,1974	FINAL OPEN
,067	385,135	20	18	DEC 07,1974	
,135	385,416	20	22	DEC 07,1974	
,202	385,439	20	26	DEC 07,1974	
,270	385,579	20	30	DEC 07,1974	
,337	385,603	20	34	DEC 07,1974	
,404	385,603	20	38	DEC 07,1974	
,472	385,649	20	42	DEC 07,1974	
,539	385,673	20	46	DEC 07,1974	
,606	385,673	20	50	DEC 07,1974	
,674	385,673	20	54	DEC 07,1974	
,741	385,673	20	58	DEC 07,1974	
,809	385,673	21	03	DEC 07,1974	
,876	385,673	21	07	DEC 07,1974	
,943	385,673	21	11	DEC 07,1974	
1,011	385,673	21	15	DEC 07,1974	4,6 G/M INSIDE
1,078	385,696	21	19	DEC 07,1974	DRILL PIPE
1,145	385,673	21	23	DEC 07,1974	
1,213	385,883	21	27	DEC 07,1974	
1,280	385,977	21	31	DEC 07,1974	
1,348	386,024	21	35	DEC 07,1974	DECLINE
1,415	386,070	21	39	DEC 07,1974	10 G/M INSIDE
1,482	386,094	21	43	DEC 07,1974	DRILL PIPE
1,550	385,953	21	47	DEC 07,1974	
1,617	386,374	21	51	DEC 07,1974	
1,684	386,515	21	55	DEC 07,1974	
1,752	386,632	21	59	DEC 07,1974	DECLINE
1,819	386,678	22	03	DEC 07,1974	
1,887	386,772	22	07	DEC 07,1974	
1,954	386,468	22	11	DEC 07,1974	
2,021	386,304	22	15	DEC 07,1974	
2,089	386,257	22	19	DEC 07,1974	30 GPM ANNULUS
2,156	386,234	22	23	DEC 07,1974	
2,223	386,187	22	27	DEC 07,1974	
2,291	386,164	22	31	DEC 07,1974	
2,358	386,164	22	35	DEC 07,1974	60 GPM ANNULUS
2,426	386,164	22	40	DEC 07,1974	
2,493	386,140	22	44	DEC 07,1974	
2,560	386,164	22	48	DEC 07,1974	
2,628	386,164	22	52	DEC 07,1974	

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
SS MPT NO. 1

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,695	386,164	22	56	DEC 07,1974	
2,762	386,211	23	00	DEC 07,1974	
2,830	386,211	23	04	DEC 07,1974	
2,897	399,447	23	08	DEC 07,1974	
2,965	386,304	23	12	DEC 07,1974	
3,032	386,257	23	16	DEC 07,1974	
3,099	386,234	23	20	DEC 07,1974	
3,167	386,211	23	24	DEC 07,1974	END FLOW

48 POINTS REPORTED THIS RUN

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-R                                                  12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                    DATE OF RUN
88  MPT NO. 1                                                          12-14-74

                              SPERRY-SUN
               PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA     PRESSURE                  TIME      DATE              COMMENTS
    TIME       (PSI)                   HR MIN

    0.000      386.211                 23  24 DEC 07,1974   FINAL SHUT IN
     .058      386.187                 23  27 DEC 07,1974   UNSEAT PACKER
     .117      386.234                 23  31 DEC 07,1974   END MPT NO.1
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                     3 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 88 WITH 1000 LB ELEMENT

GAUGE DEPTH IS 1278 FT INSIDE DP

TEST INTERVAL IS FROM 1265 FT

(MIDDLE PACKER) TO 1280 FT

(BOTTOM PACKER) INSIDE DP

GROUND LEVEL REFERENCE IS 7036 FT

91 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
88 MPT NO. 2

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	334.761	00	24	DEC 08,1974	MPT NO.2 OPEN
.092	334.340	00	29	DEC 08,1974	TEST DEPTH
.183	334.246	00	35	DEC 08,1974	1278 FT.

3 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
88 MPT NO, 2

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	334,246	00	35	DEC 08,1974	SHUT IN
,067	334,199	00	39	DEC 08,1974	
,133	334,153	00	43	DEC 08,1974	
,200	334,223	00	47	DEC 08,1974	
,267	333,755	00	51	DEC 08,1974	
,333	333,615	00	55	DEC 08,1974	
,400	333,568	00	59	DEC 08,1974	
,467	333,591	01	03	DEC 08,1974	
,533	333,568	01	07	DEC 08,1974	
,600	333,591	01	11	DEC 08,1974	
,667	333,638	01	15	DEC 08,1974	
,733	333,638	01	19	DEC 08,1974	END SHUT IN

12 POINTS REPORTED THIS RUN

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	333,638	01	19	DEC 08,1974	FINAL OPEN
,068	333,708	01	23	DEC 08,1974	
,135	334,270	01	27	DEC 08,1974	
,203	334,036	01	31	DEC 08,1974	
,270	333,942	01	35	DEC 08,1974	
,338	333,989	01	39	DEC 08,1974	
,406	333,989	01	43	DEC 08,1974	
,473	334,012	01	47	DEC 08,1974	
,541	333,989	01	51	DEC 08,1974	
,608	333,989	01	56	DEC 08,1974	
,676	334,036	02	00	DEC 08,1974	
,744	334,036	02	04	DEC 08,1974	
,811	334,036	02	08	DEC 08,1974	
,879	334,036	02	12	DEC 08,1974	
,946	334,083	02	16	DEC 08,1974	
1,014	334,036	02	20	DEC 08,1974	
1,082	334,036	02	24	DEC 08,1974	
1,149	334,083	02	28	DEC 08,1974	
1,217	334,083	02	32	DEC 08,1974	
1,285	334,106	02	36	DEC 08,1974	
1,352	334,106	02	40	DEC 08,1974	
1,420	334,199	02	44	DEC 08,1974	
1,487	334,223	02	48	DEC 08,1974	
1,555	334,223	02	52	DEC 08,1974	
1,623	334,223	02	56	DEC 08,1974	
1,690	334,199	03	00	DEC 08,1974	
1,758	334,223	03	04	DEC 08,1974	
1,825	334,223	03	09	DEC 08,1974	
1,893	334,246	03	13	DEC 08,1974	
1,961	334,223	03	17	DEC 08,1974	
2,028	334,223	03	21	DEC 08,1974	
2,096	334,270	03	25	DEC 08,1974	
2,163	334,293	03	29	DEC 08,1974	
2,231	334,316	03	33	DEC 08,1974	
2,299	334,316	03	37	DEC 08,1974	
2,366	334,387	03	41	DEC 08,1974	
2,434	334,387	03	45	DEC 08,1974	
2,501	334,410	03	49	DEC 08,1974	30 GPM ANNULUS
2,569	334,410	03	53	DEC 08,1974	
2,637	334,433	03	57	DEC 08,1974	

JOB NUMBER
SPG-11210-R

DATE OF JO
12-7-74 TO 12-8-7

GAUGE/RUN NUMBER
88 MPT NO. 2

DATE OF RU
12-14-7

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,704	334,433	04	01	DEC 08,1974	
2,772	334,457	04	05	DEC 08,1974	
2,839	334,480	04	09	DEC 08,1974	60 GPM ANNULUS
2,907	334,480	04	13	DEC 08,1974	
2,975	334,550	04	17	DEC 08,1974	
3,042	334,527	04	22	DEC 08,1974	
3,110	334,550	04	26	DEC 08,1974	
3,177	334,574	04	30	DEC 08,1974	DECLINE
3,245	334,644	04	34	DEC 08,1974	
3,313	334,691	04	38	DEC 08,1974	
3,380	334,737	04	42	DEC 08,1974	
3,448	334,808	04	46	DEC 08,1974	
3,515	334,878	04	50	DEC 08,1974	5 GPM INSIDE
3,583	334,971	04	54	DEC 08,1974	DRILL PIPE
3,651	335,018	04	58	DEC 08,1974	
3,718	335,041	05	02	DEC 08,1974	
3,786	335,041	05	06	DEC 08,1974	
3,854	335,041	05	10	DEC 08,1974	10 GPM INSIDE
3,921	335,088	05	14	DEC 08,1974	DRILL PIPE
3,989	335,041	05	18	DEC 08,1974	
4,056	335,041	05	22	DEC 08,1974	
4,124	335,018	05	26	DEC 08,1974	
4,192	335,018	05	30	DEC 08,1974	30 GPM INSIDE
4,259	335,018	05	35	DEC 08,1974	DRILL PIPE
4,327	334,971	05	39	DEC 08,1974	
4,394	334,995	05	43	DEC 08,1974	
4,462	335,041	05	47	DEC 08,1974	DECLINE
4,530	335,065	05	51	DEC 08,1974	
4,597	335,065	05	55	DEC 08,1974	
4,665	335,088	05	59	DEC 08,1974	
4,732	335,112	06	03	DEC 08,1974	
4,800	335,182	06	07	DEC 08,1974	END FLOW

72 POINTS REPORTED THIS RUN

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JOB NUMBER                                                    DATE OF JOB
SPG-11210-R                                           12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                              DATE OF RUN
88  MPT  NO, 2                                                   12-14-74

                              SPERRY-SUN
           PRECISION SUBSURFACE PRESSURE GAUGE REPORT

     DELTA    PRESSURE                   TIME     DATE            COMMENTS
     TIME      (PSI)                    HR MIN

     0,000    335,182                   06  07 DEC 08,1974   FINAL SHUT IN
      ,078    335,275                   06  12 DEC 08,1974
      ,156    335,369                   06  16 DEC 08,1974
      ,233    335,462                   06  21 DEC 08,1974   END TEST MPT 2
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4 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JO
12-7-74 TO 12-8-7

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 88 WITH 1000 LB ELEMENT

GAUGE DEPTH IS 1184 FT INSIDE DP

TEST INTERVAL IS FROM 1171 FT

(MIDDLE PACKER) TO 1186 FT

(BOTTOM PACKER)

GROUND LEVEL REFERENCE IS 7036 FT

II B-1651

74 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JO
12-7-74 TO 12-8-7

GAUGE/RUN NUMBER
86 MPT NO, 3

DATE OF RU
12-14-7

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	334,924	07	02	DEC 08,1974	MPT NO.3 OPEN
,061	334,901	07	06	DEC 08,1974	TEST DEPTH
,122	334,924	07	09	DEC 08,1974	1184 FT,
,183	333,241	07	13	DEC 08,1974	END OPEN

4 POINTS REPORTED THIS RUN

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JOB NUMBER                                                        DATE OF JO
SPG-11210-R                                                  12-7-74 TO 12-8-7

GAUGE/RUN NUMBER                                                  DATE OF RU
88 MPT NO, 3

                              SPERRY-SUN
                PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA   PRESSURE                TIME     DATE             COMMENTS
    TIME     (PSI)                 HR MIN

    0,000    334,924               07  13 DEC 08,1974   SHUT IN
     ,071    309,176               07  17 DEC 08,1974
     ,143    295,846               07  22 DEC 08,1974
     ,214    296,173               07  26 DEC 08,1974
     ,286    299,447               07  30 DEC 08,1974
     ,357    299,822               07  34 DEC 08,1974
     ,429    299,705               07  39 DEC 08,1974
     ,500    299,658               07  43 DEC 08,1974   END SHUT IN
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8 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-R

DATE OF JO
12-7-74 TO 12-8-7

GAUGE/RUN NUMBER
88 MPT NO, 3

DATE OF RU
12-14-7

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	299,658	07	43	DEC 08,1974	FINAL OPEN
,067	299,705	07	47	DEC 08,1974	
,133	299,728	07	51	DEC 08,1974	
,200	299,705	07	55	DEC 08,1974	
,267	299,705	07	59	DEC 08,1974	
,333	299,751	08	03	DEC 08,1974	
,400	299,658	08	07	DEC 08,1974	20 GPM ANNULUS
,467	299,588	08	11	DEC 08,1974	
,533	299,588	08	15	DEC 08,1974	
,600	299,611	08	19	DEC 08,1974	
,667	299,494	08	23	DEC 08,1974	
,733	299,471	08	27	DEC 08,1974	40 GPM ANNULUS
,800	299,518	08	31	DEC 08,1974	
,867	299,541	08	35	DEC 08,1974	
,933	299,518	08	39	DEC 08,1974	
1,000	299,541	08	43	DEC 08,1974	
1,067	299,541	08	47	DEC 08,1974	60 GPM ANNULUS
1,133	299,611	08	51	DEC 08,1974	
1,200	299,564	08	55	DEC 08,1974	
1,267	299,635	08	59	DEC 08,1974	
1,333	298,746	09	03	DEC 08,1974	
1,400	299,705	09	07	DEC 08,1974	DECLINE
1,467	299,751	09	11	DEC 08,1974	
1,533	299,751	09	15	DEC 08,1974	
1,600	299,775	09	19	DEC 08,1974	
1,667	299,775	09	23	DEC 08,1974	
1,733	299,798	09	27	DEC 08,1974	
1,800	299,822	09	31	DEC 08,1974	
1,867	299,822	09	35	DEC 08,1974	5 GPM INSIDE
1,933	299,892	09	39	DEC 08,1974	DRILL PIPE
2,000	299,892	09	43	DEC 08,1974	
2,067	299,915	09	47	DEC 08,1974	
2,133	299,985	09	51	DEC 08,1974	
2,200	299,962	09	55	DEC 08,1974	10 GPM INSIDE
2,267	300,032	09	59	DEC 08,1974	DRILL PIPE
2,333	300,032	10	03	DEC 08,1974	
2,400	300,055	10	07	DEC 08,1974	
2,467	300,079	10	11	DEC 08,1974	
2,533	300,102	10	15	DEC 08,1974	
2,600	300,102	10	19	DEC 08,1974	20 GPM INSIDE

JOB NUMBER
BPG-11210-R

DATE OF JO
12-7-74 TO 12-8-7

GAUGE/RUN NUMBER
08 MPT NO. 3

DATE OF RU
12-14-7

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2.667	300.126	10	23	DEC 08,1974	DRILL PIPE
2.733	300.149	10	27	DEC 08,1974	
2.800	300.126	10	31	DEC 08,1974	
2.867	300.172	10	35	DEC 08,1974	19 GPM INSIDE
2.933	300.219	10	39	DEC 08,1974	DRILL PIPE
3.000	300.219	10	43	DEC 08,1974	
3.067	300.266	10	47	DEC 08,1974	
3.133	300.289	10	51	DEC 08,1974	
3.200	300.266	10	55	DEC 08,1974	DECLINE
3.267	300.289	10	59	DEC 08,1974	
3.333	300.289	11	03	DEC 08,1974	
3.400	300.313	11	07	DEC 08,1974	
3.467	300.313	11	11	DEC 08,1974	
3.533	300.359	11	15	DEC 08,1974	
3.600	300.383	11	19	DEC 08,1974	
3.667	300.383	11	23	DEC 08,1974	
3.733	300.406	11	27	DEC 08,1974	
3.800	300.406	11	31	DEC 08,1974	END FLOW

58 POINTS REPORTED THIS RUN

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JOB NUMBER                                                              DATE OF JO
8PG-11210-R                                                       12-7-74 TO 12-8-7

GAUGE/RUN NUMBER                                                        DATE OF RU
86 MPT NO. 3                                                               12-14-7

                                   SPERRY-SUN
                   PRECISION SUBSURFACE PRESSURE GAUGE REPORT

    DELTA    PRESSURE                        TIME       DATE            COMMENTS
    TIME      (PSI)                         HR MIN

    0,000     354,990                       11   31 DEC 08,1974   FINAL SHUT IN
     .078     300,406                       11   36 DEC 08,1974
     .156     300,430                       11   40 DEC 08,1974
     .233     300,430                       11   45 DEC 08,1974   END TEST MPT.3
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                           4 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 88 WITH 1000 LB ELEMENT

GAUGE DEPTH IS 1143 FT INSIDE DP

TEST INTERVAL IS FROM 1130 FT

(MIDDLE PACKER DEPTH) TO 1146 FT

(BOTTOM PACKER DEPTH)

GROUND LEVEL REFERENCE IS 7036 FT.

FINAL HYDROSTATIC IS 326.76

92 POINTS REPORTED THIS JOB

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-R                                                   12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                    DATE OF RUN
88 MPT NO. 4                                                           12-14-74

                                  SPERRY-SUN
                  PRECISION SUBSURFACE PRESSURE GAUGE REPORT


    DELTA    PRESSURE                     TIME     DATE             COMMENTS
    TIME      (PSI)                      HR MIN

    0.000     279.686                    12  58 DEC 08,1974   MPT NO. 4 OPEN
     .078     279.780                    13  03 DEC 08,1974   TEST DEPTH
     .156     279.733                    13  07 DEC 08,1974   1143 FT.
     .233     279.709                    13  12 DEC 08,1974   END OPEN
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                          4 POINTS REPORTED THIS RUN

                                   PAGE  2
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
88 MPT NO. 4

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0,000	279,709	13	12	DEC 08,1974	SHUT IN
,063	279,733	13	16	DEC 08,1974	
,125	279,709	13	20	DEC 08,1974	
,188	279,733	13	23	DEC 08,1974	
,250	279,756	13	27	DEC 08,1974	
,313	279,686	13	31	DEC 08,1974	
,375	279,639	13	35	DEC 08,1974	
,438	279,639	13	38	DEC 08,1974	
,500	280,084	13	42	DEC 08,1974	END SHUT IN

9 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
88 MPT NO. 4

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	280.084	13	42	DEC 08,1974	FINAL OPEN
.067	279.873	13	46	DEC 08,1974	
.134	279.756	13	50	DEC 08,1974	
.201	279.663	13	54	DEC 08,1974	
.268	279.686	13	58	DEC 08,1974	
.334	279.709	14	02	DEC 08,1974	
.401	279.709	14	06	DEC 08,1974	
.468	279.826	14	10	DEC 08,1974	20 GPM ANNULUS
.535	279.733	14	14	DEC 08,1974	
.602	279.780	14	18	DEC 08,1974	52 GPM ANNULUS
.669	279.803	14	22	DEC 08,1974	
.736	279.826	14	26	DEC 08,1974	DECLINE
.803	279.943	14	30	DEC 08,1974	
.869	279.850	14	34	DEC 08,1974	
.936	279.943	14	38	DEC 08,1974	
1.003	279.896	14	42	DEC 08,1974	
1.070	279.920	14	46	DEC 08,1974	
1.137	279.990	14	50	DEC 08,1974	
1.204	279.990	14	54	DEC 08,1974	
1.271	279.990	14	58	DEC 08,1974	
1.338	280.060	15	02	DEC 08,1974	
1.404	279.967	15	06	DEC 08,1974	
1.471	280.013	15	10	DEC 08,1974	
1.538	280.013	15	14	DEC 08,1974	
1.605	280.013	15	18	DEC 08,1974	
1.672	279.990	15	22	DEC 08,1974	
1.739	279.990	15	26	DEC 08,1974	
1.806	280.060	15	30	DEC 08,1974	
1.873	280.060	15	34	DEC 08,1974	
1.940	280.060	15	38	DEC 08,1974	
2.006	280.060	15	42	DEC 08,1974	
2.073	280.037	15	46	DEC 08,1974	
2.140	280.130	15	50	DEC 08,1974	21 GPM ANNULUS
2.207	280.084	15	54	DEC 08,1974	
2.274	280.130	15	58	DEC 08,1974	
2.341	280.107	16	02	DEC 08,1974	
2.408	280.130	16	06	DEC 08,1974	
2.475	280.224	16	10	DEC 08,1974	39 GPM ANNULUS
2.541	280.177	16	14	DEC 08,1974	
2.608	280.317	16	19	DEC 08,1974	

JOB NUMBER
8PG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
88 MPT NO. 4

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
2.675	280.271	16	23	DEC 08,1974	
2.742	280.317	16	27	DEC 08,1974	
2.809	280.317	16	31	DEC 08,1974	61 GPM ANNULUS
2.876	280.364	16	35	DEC 08,1974	
2.943	280.434	16	39	DEC 08,1974	
3.010	280.505	16	43	DEC 08,1974	
3.076	280.528	16	47	DEC 08,1974	
3.143	280.551	16	51	DEC 08,1974	DECLINE
3.210	280.575	16	55	DEC 08,1974	
3.277	280.598	16	59	DEC 08,1974	
3.344	280.598	17	03	DEC 08,1974	
3.411	280.668	17	07	DEC 08,1974	
3.478	280.879	17	11	DEC 08,1974	5 GPM INSIDE
3.545	281.276	17	15	DEC 08,1974	DRILL PIPE
3.612	281.487	17	19	DEC 08,1974	
3.678	281.510	17	23	DEC 08,1974	
3.745	281.674	17	27	DEC 08,1974	
3.812	281.954	17	31	DEC 08,1974	11 GPM INSIDE
3.879	282.118	17	35	DEC 08,1974	DRILL PIPE
3.946	282.258	17	39	DEC 08,1974	
4.013	282.446	17	43	DEC 08,1974	10 GPM INSIDE
4.080	282.352	17	47	DEC 08,1974	DRILL PIPE
4.147	282.399	17	51	DEC 08,1974	11 GPM INSIDE
4.213	282.586	17	55	DEC 08,1974	DRILL PIPE
4.280	282.703	17	59	DEC 08,1974	20 GPM INSIDE
4.347	282.773	18	03	DEC 08,1974	DRILL PIPE
4.414	282.843	18	07	DEC 08,1974	
4.481	282.843	18	11	DEC 08,1974	18 GPM INSIDE
4.548	282.890	18	15	DEC 08,1974	DRILL PIPE
4.615	282.820	18	19	DEC 08,1974	KEEP PIPE FULL
4.682	282.492	18	23	DEC 08,1974	
4.749	282.258	18	27	DEC 08,1974	
4.815	281.954	18	31	DEC 08,1974	
4.882	281.674	18	35	DEC 08,1974	
4.949	281.113	18	39	DEC 08,1974	
5.016	280.996	18	43	DEC 08,1974	
5.083	280.925	18	47	DEC 08,1974	
5.150	280.879	18	51	DEC 08,1974	
5.217	280.879	18	55	DEC 08,1974	END TEST MPT-4

79 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT C-B SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 209 WITH 2000 LB. ELEMENT

GAUGE DEPTH IS 1418 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1403 FT.

(BOTTOM PACKER DEPTH) TO 1470 FT. (T.D.)

GROUND LEVEL REFERENCE IS 7036 FT.

INITIAL HYDROSTATIC IS 384.70 PSI

62 POINTS REPORTED THIS JOB

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JOB NUMBER                                                      DATE OF JOB
SPG-11210-R                                                12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                DATE OF RUN
209  MPT NO. 1                                                     12-14-74

                                  SPERRY-SUN
                   PRECISION SUBSURFACE PRESSURE GAUGE REPORT

     DELTA    PRESSURE                      TIME     DATE               COMMENTS
     TIME      (PSI)                       HR MIN

     0,000     385,248                     19  36 DEC 07,1974    MPT NO.1 OPEN
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1 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO. 1

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	385.248	19	36	DEC 07,1974	SHUT IN TEST
.070	385.201	19	40	DEC 07,1974	DEPTH 1418 FT.
.141	385.436	19	44	DEC 07,1974	
.211	385.577	19	49	DEC 07,1974	
.281	385.577	19	53	DEC 07,1974	
.352	385.577	19	57	DEC 07,1974	
.422	385.671	20	01	DEC 07,1974	
.493	385.718	20	06	DEC 07,1974	
.563	385.671	20	10	DEC 07,1974	
.633	385.671	20	14	DEC 07,1974	END SHUT IN

10 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO. 1

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	385.671	20	14	DEC 07,1974	FINAL OPEN
.067	384.873	20	18	DEC 07,1974	
.135	385.389	20	22	DEC 07,1974	
.202	385.483	20	26	DEC 07,1974	
.270	385.530	20	30	DEC 07,1974	
.337	385.530	20	34	DEC 07,1974	
.404	385.577	20	38	DEC 07,1974	
.472	385.483	20	42	DEC 07,1974	
.539	385.577	20	46	DEC 07,1974	
.606	385.530	20	50	DEC 07,1974	
.674	385.530	20	54	DEC 07,1974	
.741	385.530	20	58	DEC 07,1974	
.809	385.577	21	03	DEC 07,1974	
.876	385.577	21	07	DEC 07,1974	
.943	385.577	21	11	DEC 07,1974	
1.011	385.577	21	15	DEC 07,1974	4.6 G/M INSIDE
1.078	385.764	21	19	DEC 07,1974	DRILL PIPE
1.145	385.905	21	23	DEC 07,1974	
1.213	385.905	21	27	DEC 07,1974	
1.280	385.999	21	31	DEC 07,1974	
1.348	385.999	21	35	DEC 07,1974	DECLINE
1.415	385.952	21	39	DEC 07,1974	10 G/M INSIDE
1.482	386.046	21	43	DEC 07,1974	DRILL PIPE
1.550	386.468	21	47	DEC 07,1974	
1.617	386.515	21	51	DEC 07,1974	
1.684	386.562	21	55	DEC 07,1974	
1.752	386.609	21	59	DEC 07,1974	DECLINE
1.819	386.562	22	03	DEC 07,1974	
1.887	386.187	22	07	DEC 07,1974	
1.954	386.140	22	11	DEC 07,1974	
2.021	386.140	22	15	DEC 07,1974	
2.089	386.140	22	19	DEC 07,1974	30 GPM ANNULUS
2.156	386.140	22	23	DEC 07,1974	
2.223	386.093	22	27	DEC 07,1974	
2.291	386.140	22	31	DEC 07,1974	
2.358	386.046	22	35	DEC 07,1974	60 GPM ANNULUS
2.426	386.046	22	40	DEC 07,1974	
2.493	386.046	22	44	DEC 07,1974	
2.560	386.093	22	48	DEC 07,1974	
2.628	386.140	22	52	DEC 07,1974	

JOB NUMBER
SPG-11210-R

GAUGE/RUN NUMBER
209 MPT NO, 1

DATE OF JOB
12-7-74 TO 12-8-74

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2.695	386.093	22	56	DEC 07,1974	
2.762	386.093	23	00	DEC 07,1974	
2.830	386.093	23	04	DEC 07,1974	
2.897	386.234	23	08	DEC 07,1974	
2.965	386.093	23	12	DEC 07,1974	
3.032	386.093	23	16	DEC 07,1974	
3.099	386.046	23	20	DEC 07,1974	
3.167	386.046	23	24	DEC 07,1974	END FLOW

48 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO. 1

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	386,046	23	24	DEC 07,1974	FINAL SHUT IN
,058	386,046	23	27	DEC 07,1974	UNSEAT PACKER
,117	386,140	23	31	DEC 07,1974	END MPT NO 1

3 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT CB SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 209 WITH 2000 LB. ELEMENT

GAUGE DEPTH IS 1295 INSIDE D. P.

TEST INTERVAL IS FROM 1280 FT.

(BOTTOM PACKER DEPTH) TO 1470 FT. T. D.

GROUND LEVEL REFERENCE IS 7036 FT.

II B-166S

91 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.2

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	335.215	00	24	DEC 08,1974	MPT NO.2 OPEN
.092	335.215	00	29	DEC 08,1974	TEST DEPTH
.183	335.027	00	35	DEC 08,1974	1295 FT.

3 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO,2

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	335,027	00	35	DEC 08,1974	SHUT IN
,067	335,074	00	39	DEC 08,1974	
,133	334,699	00	43	DEC 08,1974	
,200	334,417	00	47	DEC 08,1974	
,267	334,370	00	51	DEC 08,1974	
,333	334.323	00	55	DEC 08,1974	
,400	334,370	00	59	DEC 08,1974	
,467	334.370	01	03	DEC 08,1974	
,533	334,323	01	07	DEC 08,1974	
,600	334.511	01	11	DEC 08,1974	
,667	335,778	01	15	DEC 08,1974	
,733	335,356	01	19	DEC 08,1974	END SHUT IN

12 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.2

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	335.356	01	19	DEC 08,1974	FINAL OPEN
.068	335.121	01	23	DEC 08,1974	
.135	335.074	01	27	DEC 08,1974	
.203	335.121	01	31	DEC 08,1974	
.270	335.121	01	35	DEC 08,1974	
.338	335.215	01	39	DEC 08,1974	
.406	335.215	01	43	DEC 08,1974	
.473	335.215	01	47	DEC 08,1974	
.541	335.074	01	51	DEC 08,1974	
.608	335.168	01	56	DEC 08,1974	
.676	335.074	02	00	DEC 08,1974	
.744	335.168	02	04	DEC 08,1974	
.811	335.027	02	08	DEC 08,1974	
.879	335.027	02	12	DEC 08,1974	
.946	335.168	02	16	DEC 08,1974	
1.014	335.215	02	20	DEC 08,1974	
1.082	335.215	02	24	DEC 08,1974	
1.149	335.168	02	28	DEC 08,1974	
1.217	335.215	02	32	DEC 08,1974	
1.285	335.121	02	36	DEC 08,1974	
1.352	335.262	02	40	DEC 08,1974	
1.420	335.074	02	44	DEC 08,1974	
1.487	335.215	02	48	DEC 08,1974	
1.555	335.215	02	52	DEC 08,1974	
1.623	335.121	02	56	DEC 08,1974	
1.690	335.215	03	00	DEC 08,1974	
1.758	335.215	03	04	DEC 08,1974	
1.825	335.262	03	09	DEC 08,1974	
1.893	335.262	03	13	DEC 08,1974	
1.961	335.168	03	17	DEC 08,1974	
2.028	335.262	03	21	DEC 08,1974	
2.096	335.309	03	25	DEC 08,1974	
2.163	335.403	03	29	DEC 08,1974	
2.231	335.356	03	33	DEC 08,1974	
2.299	335.403	03	37	DEC 08,1974	
2.366	335.309	03	41	DEC 08,1974	
2.434	335.356	03	45	DEC 08,1974	
2.501	335.356	03	49	DEC 08,1974	30 GPM ANNULUS
2.569	335.403	03	53	DEC 08,1974	
2.637	335.449	03	57	DEC 08,1974	

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.2

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2.704	335.449	04	01	DEC 08,1974	
2.772	335.543	04	05	DEC 08,1974	
2.839	335.496	04	09	DEC 08,1974	60 GPM ANNULUS
2.907	335.590	04	13	DEC 08,1974	
2.975	335.543	04	17	DEC 08,1974	
3.042	335.590	04	22	DEC 08,1974	
3.110	335.731	04	26	DEC 08,1974	
3.177	335.825	04	30	DEC 08,1974	DECLINE
3.245	335.825	04	34	DEC 08,1974	
3.313	335.872	04	38	DEC 08,1974	
3.380	335.919	04	42	DEC 08,1974	
3.448	335.872	04	46	DEC 08,1974	
3.515	335.919	04	50	DEC 08,1974	5 GPM INSIDE
3.583	335.778	04	54	DEC 08,1974	DRILL PIPE
3.651	335.825	04	58	DEC 08,1974	
3.718	335.731	05	02	DEC 08,1974	
3.786	335.778	05	06	DEC 08,1974	
3.854	335.731	05	10	DEC 08,1974	10 GPM INSIDE
3.921	335.825	05	14	DEC 08,1974	DRILL PIPE
3.989	335.778	05	18	DEC 08,1974	
4.056	335.778	05	22	DEC 08,1974	
4.124	335.919	05	26	DEC 08,1974	
4.192	335.872	05	30	DEC 08,1974	30 GPM INSIDE
4.259	335.966	05	35	DEC 08,1974	DRILL PIPE
4.327	335.872	05	39	DEC 08,1974	
4.394	336.059	05	43	DEC 08,1974	
4.462	336.153	05	47	DEC 08,1974	DECLINE
4.530	336.106	05	51	DEC 08,1974	
4.597	336.294	05	55	DEC 08,1974	
4.665	336.247	05	59	DEC 08,1974	
4.732	335.966	06	03	DEC 08,1974	
4.800	336.013	06	07	DEC 08,1974	END FLOW

72 POINTS REPORTED THIS RUN

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JOB NUMBER                                                          DATE OF JOB
SPG-11210-R                                                    12-7-74 TO 12-8-74

GAUGE/RUN NUMBER                                                    DATE OF RUN
209  MPT NO.2                                                          12-14-74

                              SPERRY-SUN
                 PRECISION SUBSURFACE PRESSURE GAUGE REPORT


   DELTA    PRESSURE                       TIME      DATE              COMMENTS
   TIME      (PSI)                        HR MIN

   0,000     336.013                      06   07 DEC 08,1974   FINAL SHUT IN
    ,078     335,919                      06   12 DEC 08,1974
    ,156     335,825                      06   16 DEC 08,1974
    ,233     336,669                      06   21 DEC 08,1974   END TEST MPT 2
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                         4 POINTS REPORTED THIS RUN
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JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT CB SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 209 WITH 2000 LB. ELEMENT

GAUGE DEPTH IS 1201 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1186 FT.

(BOTTOM PACKER DEPTH) TO 1470 FT. T.D.

GROUND LEVEL REFERENCE IS 7036 FT.

73 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.3

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	299.694	07	02	DEC 08,1974	MPT NO.3 OPEN
.092	299.366	07	07	DEC 08,1974	TEST DEPTH
.183	299.319	07	13	DEC 08,1974	1201 FT.

3 POINTS REPORTED THIS RUN

JOB NUMBER SPG-11210-R	DATE OF JOB 12-7-74 TO 12-8-74
GAUGE/RUN NUMBER 209 MPT NO.3	DATE OF RUN 12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	299.319	07	13	DEC 08,1974	SHUT IN
.071	299.366	07	17	DEC 08,1974	
.143	299.366	07	22	DEC 08,1974	
.214	299.225	07	26	DEC 08,1974	
.286	299.366	07	30	DEC 08,1974	
.357	299.413	07	34	DEC 08,1974	
.429	299.225	07	39	DEC 08,1974	
.500	299.225	07	43	DEC 08,1974	END SHUT IN

8 POINTS REPORTED THIS RUN

JOB NUMBER
8PG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.3

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	299.225	07	43	DEC 08,1974	FINAL OPEN
.067	299.272	07	47	DEC 08,1974	
.133	298.944	07	51	DEC 08,1974	
.200	298.944	07	55	DEC 08,1974	
.267	298.944	07	59	DEC 08,1974	
.333	298.991	08	03	DEC 08,1974	
.400	299.038	08	07	DEC 08,1974	20 GPM ANNULUS
.467	298.991	08	11	DEC 08,1974	
.533	298.991	08	15	DEC 08,1974	
.600	299.038	08	19	DEC 08,1974	
.667	299.084	08	23	DEC 08,1974	
.733	299.084	08	27	DEC 08,1974	40 GPM ANNULUS
.800	299.084	08	31	DEC 08,1974	
.867	299.038	08	35	DEC 08,1974	
.933	299.178	08	39	DEC 08,1974	
1.000	299.131	08	43	DEC 08,1974	
1.067	299.178	08	47	DEC 08,1974	60 GPM ANNULUS
1.133	299.131	08	51	DEC 08,1974	
1.200	299.131	08	55	DEC 08,1974	
1.267	299.131	08	59	DEC 08,1974	
1.333	299.225	09	03	DEC 08,1974	
1.400	299.225	09	07	DEC 08,1974	DECLINE
1.467	299.319	09	11	DEC 08,1974	
1.533	299.319	09	15	DEC 08,1974	
1.600	299.366	09	19	DEC 08,1974	
1.667	299.366	09	23	DEC 08,1974	
1.733	299.413	09	27	DEC 08,1974	
1.800	299.460	09	31	DEC 08,1974	
1.867	299.507	09	35	DEC 08,1974	
1.933	299.507	09	39	DEC 08,1974	5 GPM INSIDE
2.000	299.554	09	43	DEC 08,1974	DRILL PIPE
2.067	299.554	09	47	DEC 08,1974	
2.133	299.601	09	51	DEC 08,1974	
2.200	299.554	09	55	DEC 08,1974	
2.267	299.601	09	59	DEC 08,1974	10 GPM INSIDE
2.333	299.554	10	03	DEC 08,1974	DRILL PIPE
2.400	299.601	10	07	DEC 08,1974	
2.467	299.554	10	11	DEC 08,1974	
2.533	299.554	10	15	DEC 08,1974	
2.600	299.601	10	19	DEC 08,1974	20 GPM INSIDE

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.3

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2,667	299,601	10	23	DEC 08,1974	DRILL PIPE
2.733	299,601	10	27	DEC 08,1974	
2,800	299,694	10	31	DEC 08,1974	
2,867	299,694	10	35	DEC 08,1974	19 GPM INSIDE
2,933	299,694	10	39	DEC 08,1974	DRILL PIPE
3,000	299,741	10	43	DEC 08,1974	
3,067	299.788	10	47	DEC 08,1974	
3,133	299,788	10	51	DEC 08,1974	
3,200	299,882	10	55	DEC 08,1974	DECLINE
3,267	299,882	10	59	DEC 08,1974	
3,333	299.882	11	03	DEC 08,1974	
3,400	299,929	11	07	DEC 08,1974	
3,467	299.929	11	11	DEC 08,1974	
3,533	299,976	11	15	DEC 08,1974	
3,600	299.976	11	19	DEC 08,1974	
3,667	300,023	11	23	DEC 08,1974	
3,733	300,023	11	27	DEC 08,1974	
3,800	299,929	11	31	DEC 08,1974	END FLOW

58 POINTS REPORTED THIS RUN

JOB NUMBER
8PG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.3

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	299.929	11	31	DEC 08,1974	FINAL SHUT IN
.078	299.929	11	36	DEC 08,1974	
.156	299.976	11	40	DEC 08,1974	
.233	299.929	11	45	DEC 08,1974	END TEST MPT 3

4 POINTS REPORTED THIS RUN

JOB NUMBER	DATE OF JOB
SPG-11210-R	12-7-74 TO 12-8-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER	FEDERAL SG-17
FIELD/LEASE	TRACT CB SORGHUM GULCH
COUNTY/PARISH	RIO BLANCO
STATE	COLORADO
TYPE OF TEST	MPT DRILL STEM
REFERENCE ELEV	GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 209 WITH 2000 LB. ELEMENT

GAUGE DEPTH IS 1161 FT.

TEST INTERVAL IS FROM 1146 FT.

(BOTTOM PACKER DEPTH) TO 1470 FT. T. D.

FINAL HYDROSTATIC IS 285.15 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

92 POINTS REPORTED THIS JOB

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.4

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	TIME MIN	DATE	COMMENTS
0.000	282.333	12	58	DEC 08,1974	MPT-4 OPEN
.078	282.333	13	03	DEC 08,1974	TEST DEPTH
.156	282.333	13	07	DEC 08,1974	1161 FEET
.233	282.333	13	12	DEC 08,1974	END OPEN

4 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.4

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0.000	282.333	13	12	DEC 08,1974	SHUT-IN
.063	282.521	13	16	DEC 08,1974	
.125	284.538	13	20	DEC 08,1974	
.188	284.304	13	23	DEC 08,1974	
.250	284.304	13	27	DEC 08,1974	
.313	284.304	13	31	DEC 08,1974	
.375	284.585	13	35	DEC 08,1974	
.438	284.585	13	38	DEC 08,1974	
.500	284.492	13	42	DEC 08,1974	END SHUT-IN

9 POINTS REPORTED THIS RUN

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.4

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
0,000	284,492	13	42	DEC 08,1974	FINAL OPEN
,067	284,445	13	46	DEC 08,1974	
,134	284.445	13	50	DEC 08,1974	
,201	284.492	13	54	DEC 08,1974	
,268	284.538	13	58	DEC 08,1974	
,334	284,492	14	02	DEC 08,1974	
,401	284,538	14	06	DEC 08,1974	
,468	284.538	14	10	DEC 08,1974	20 GPM ANNULUS
,535	284,538	14	14	DEC 08,1974	
,602	284.585	14	18	DEC 08,1974	52 GPM ANNULUS
,669	284,632	14	22	DEC 08,1974	
,736	284.492	14	26	DEC 08,1974	DECLINE
,803	284.538	14	30	DEC 08,1974	PUMP CALIB.
,869	284,585	14	34	DEC 08,1974	
,936	284,679	14	38	DEC 08,1974	
1,003	284,632	14	42	DEC 08,1974	
1.070	284.726	14	46	DEC 08,1974	
1,137	284,632	14	50	DEC 08,1974	
1,204	284,632	14	54	DEC 08,1974	
1,271	284.726	14	58	DEC 08,1974	
1,338	284,679	15	02	DEC 08,1974	
1,404	284.632	15	06	DEC 08,1974	
1,471	284.679	15	10	DEC 08,1974	
1,538	284.679	15	14	DEC 08,1974	
1,605	284.679	15	18	DEC 08,1974	
1,672	284.679	15	22	DEC 08,1974	
1,739	284,679	15	26	DEC 08,1974	
1,806	284,726	15	30	DEC 08,1974	
1,873	284,726	15	34	DEC 08,1974	
1,940	284.679	15	38	DEC 08,1974	
2,006	284.679	15	42	DEC 08,1974	
2,073	284.726	15	46	DEC 08,1974	
2,140	284.726	15	50	DEC 08,1974	21 GPM ANNULUS
2,207	284.820	15	54	DEC 08,1974	
2,274	284.820	15	58	DEC 08,1974	
2,341	284,820	16	02	DEC 08,1974	
2,408	284.867	16	06	DEC 08,1974	
2,475	284,867	16	10	DEC 08,1974	39 GPM ANNULUS
2,541	284,961	16	14	DEC 08,1974	
2,608	284,961	16	18	DEC 08,1974	

JOB NUMBER
SPG-11210-R

DATE OF JOB
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER
209 MPT NO.4

DATE OF RUN
12-14-74

SPERRY-SUN
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR	MIN	DATE	COMMENTS
2.675	284.961	16	23	DEC 08,1974	
2.742	285.102	16	27	DEC 08,1974	
2.809	285.195	16	31	DEC 08,1974	61 GPM ANNULUS
2.876	285.148	16	35	DEC 08,1974	
2.943	285.242	16	39	DEC 08,1974	
3.010	285.195	16	43	DEC 08,1974	
3.076	285.289	16	47	DEC 08,1974	
3.143	285.242	16	51	DEC 08,1974	DECLINE
3.210	285.195	16	55	DEC 08,1974	
3.277	285.336	16	59	DEC 08,1974	
3.344	285.242	17	03	DEC 08,1974	
3.411	285.852	17	07	DEC 08,1974	
3.478	286.087	17	11	DEC 08,1974	5 GPM INSIDE
3.545	286.181	17	15	DEC 08,1974	DRILL PIPE
3.612	286.275	17	19	DEC 08,1974	
3.678	286.368	17	23	DEC 08,1974	
3.745	286.744	17	27	DEC 08,1974	
3.812	286.791	17	31	DEC 08,1974	11 GPM INSIDE
3.879	287.025	17	35	DEC 08,1974	DRILL PIPE
3.946	286.885	17	39	DEC 08,1974	
4.013	286.978	17	43	DEC 08,1974	10 GPM INSIDE
4.080	287.025	17	47	DEC 08,1974	DRILL PIPE
4.147	287.166	17	51	DEC 08,1974	11 GPM INSIDE
4.213	287.213	17	55	DEC 08,1974	DRILL PIPE
4.280	287.401	17	59	DEC 08,1974	20 GPM INSIDE
4.347	287.354	18	03	DEC 08,1974	DRILL PIPE
4.414	287.307	18	07	DEC 08,1974	
4.481	287.307	18	11	DEC 08,1974	18 GPM INSIDE
4.548	287.213	18	15	DEC 08,1974	DRILL PIPE
4.615	287.025	18	19	DEC 08,1974	CONTINUED
4.682	286.885	18	23	DEC 08,1974	18 GPM TO KEEP
4.749	286.509	18	27	DEC 08,1974	WATER TO SURF.
4.815	286.228	18	31	DEC 08,1974	
4.882	285.899	18	35	DEC 08,1974	
4.949	285.524	18	39	DEC 08,1974	
5.016	285.383	18	43	DEC 08,1974	
5.083	285.383	18	47	DEC 08,1974	
5.150	285.242	18	51	DEC 08,1974	
5.217	285.195	18	55	DEC 08,1974	END TEST MPT-4

79 POINTS REPORTED THIS RUN

MPT Series 2 - SG-17

Aquifer Data - Drill Stem & Multipacker Tests (Cont'd)

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		272	364.7	282.9	294.8	310.1	339.2
		274	364.7	282.9	294.8	310.1	339.2
		276	364.7	282.9	294.8	310.1	339.2
		278	361.8	282.9	294.8	310.1	339.2
		280	359.0	282.9	294.8	310.1	339.2
		282	356.4	282.9	294.8	310.1	339.2
		284	354.2	282.6	294.8	310.1	339.2
		286	351.7	282.3	294.8	310.1	339.2
		288	348.9	282.3	294.8	310.1	339.2
		290	346.6	282.3	294.8	310.1	339.2
		292	344.4	281.9	294.8	310.1	339.2
		294	342.2	281.9	294.8	310.1	339.2
		296	340.6	281.9	294.8	310.1	339.2
		298	338.7	281.9	294.8	310.1	339.2
		300	337.1	281.9	294.8	310.1	339.2
		302	335.5	281.9	294.8	310.1	339.2
		304	334.3	281.9	294.8	310.1	339.2
		306	332.7	281.9	294.8	310.1	339.2
		308	331.4	281.9	294.8	310.1	339.2
		310	329.8	281.9	294.8	310.1	339.2
		312	328.9	281.9	294.8	310.1	339.2
		314	327.3	281.6	294.8	310.1	339.2
		316	326.0	281.6	294.8	310.1	339.2
FINISHED FALL-OFF.	2358	318	325.1	281.6	294.8	310.1	339.2
PULLED PACKER LOOSE.	2359		288.0	301.0	313.9	329.1	344.2
FINAL HYDROSTATIC (1-16-75)	2359-0014		282.0	298.8	308.2	325.5	343.9

JOHNSTON

PRESSURE LOG*

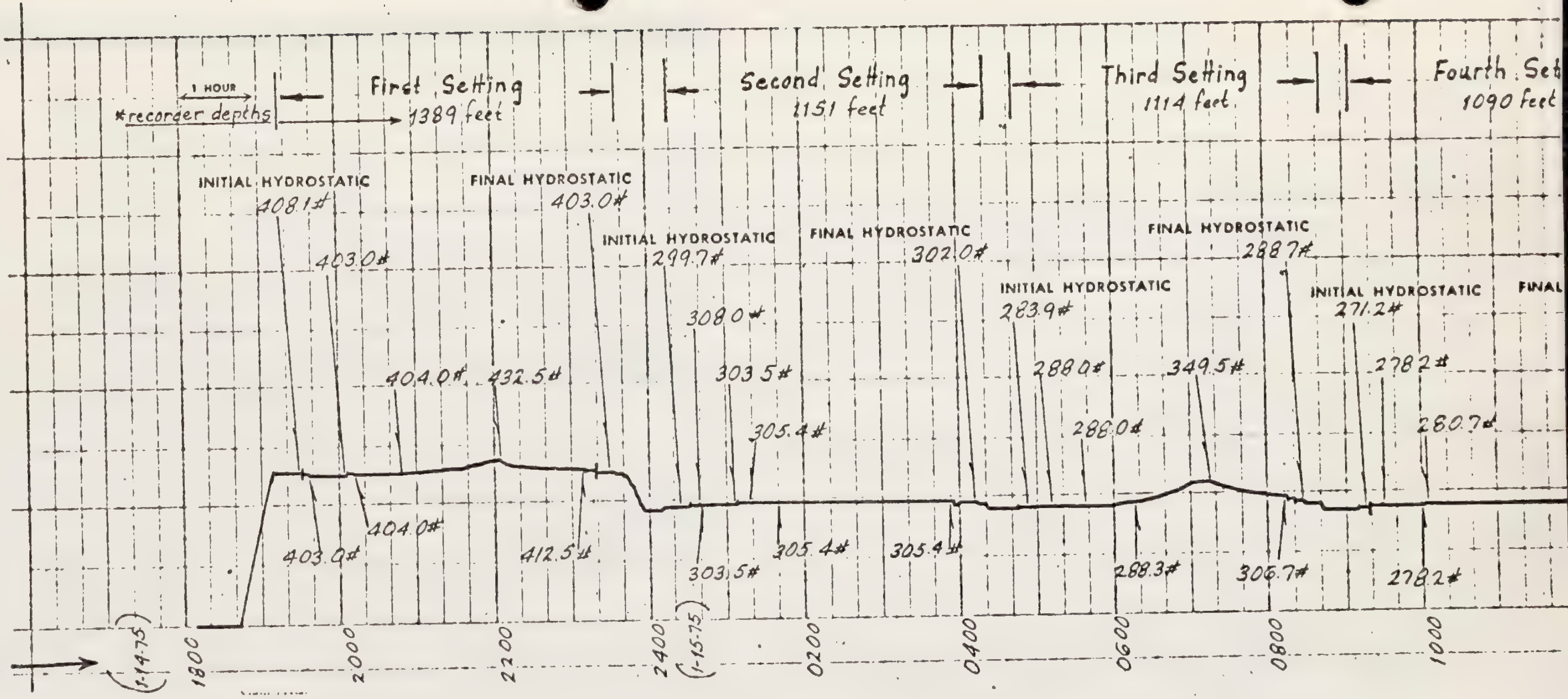
Field Report No. 09092 C

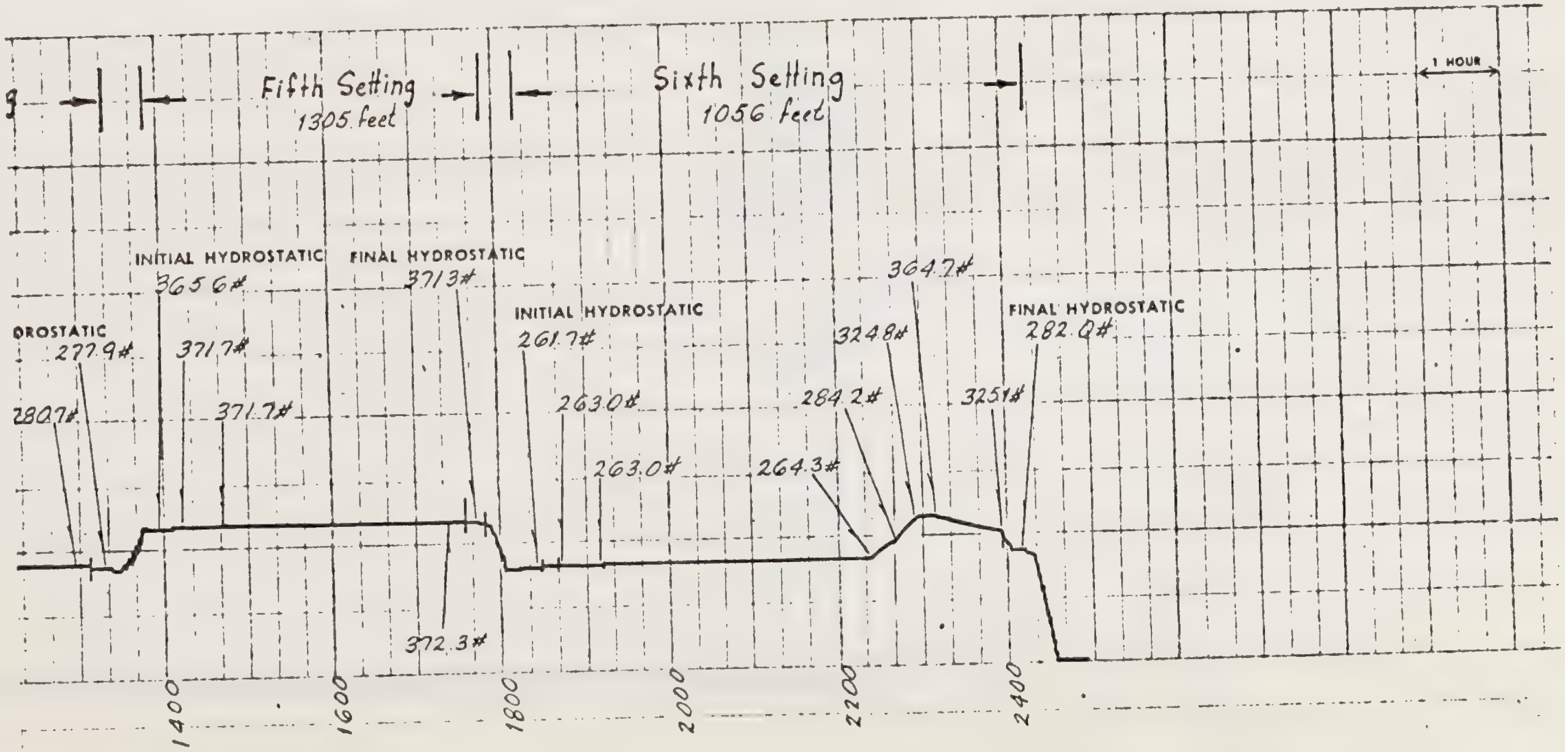
Instrument: Number J-068

Capacity 1600 p.s.i.

Depth * see settings

*a continuous tracing of the original chart

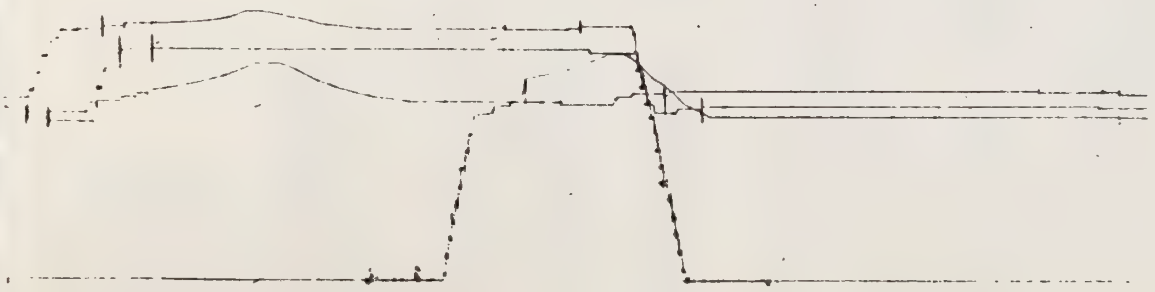




JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09092 C	J-068
CAPACITY	**REPORTS REQUESTED**
1600#	14+

J068
Series #3



JOHNSTON

PRESSURE LOG*

Field Report No. 09092 C

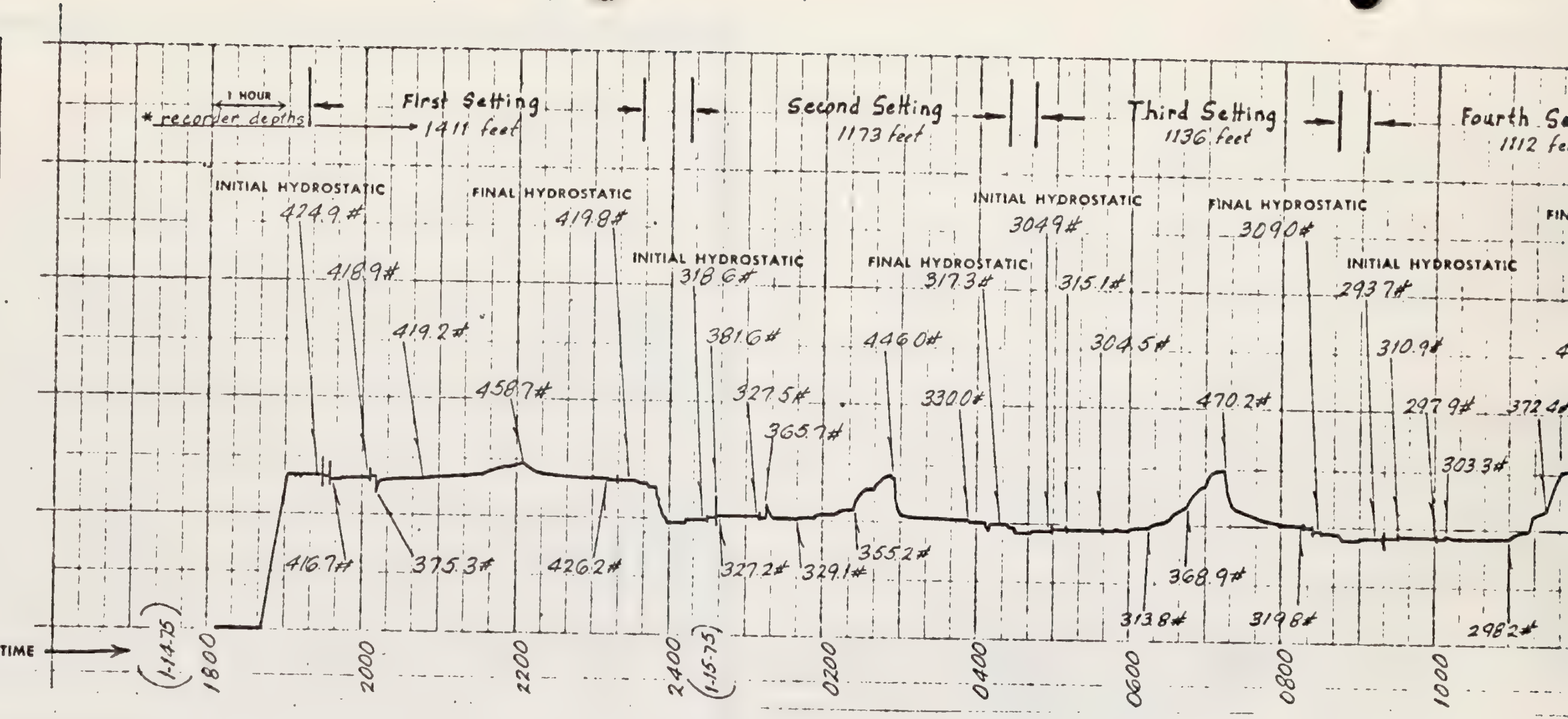
Instrument: Number J- 080

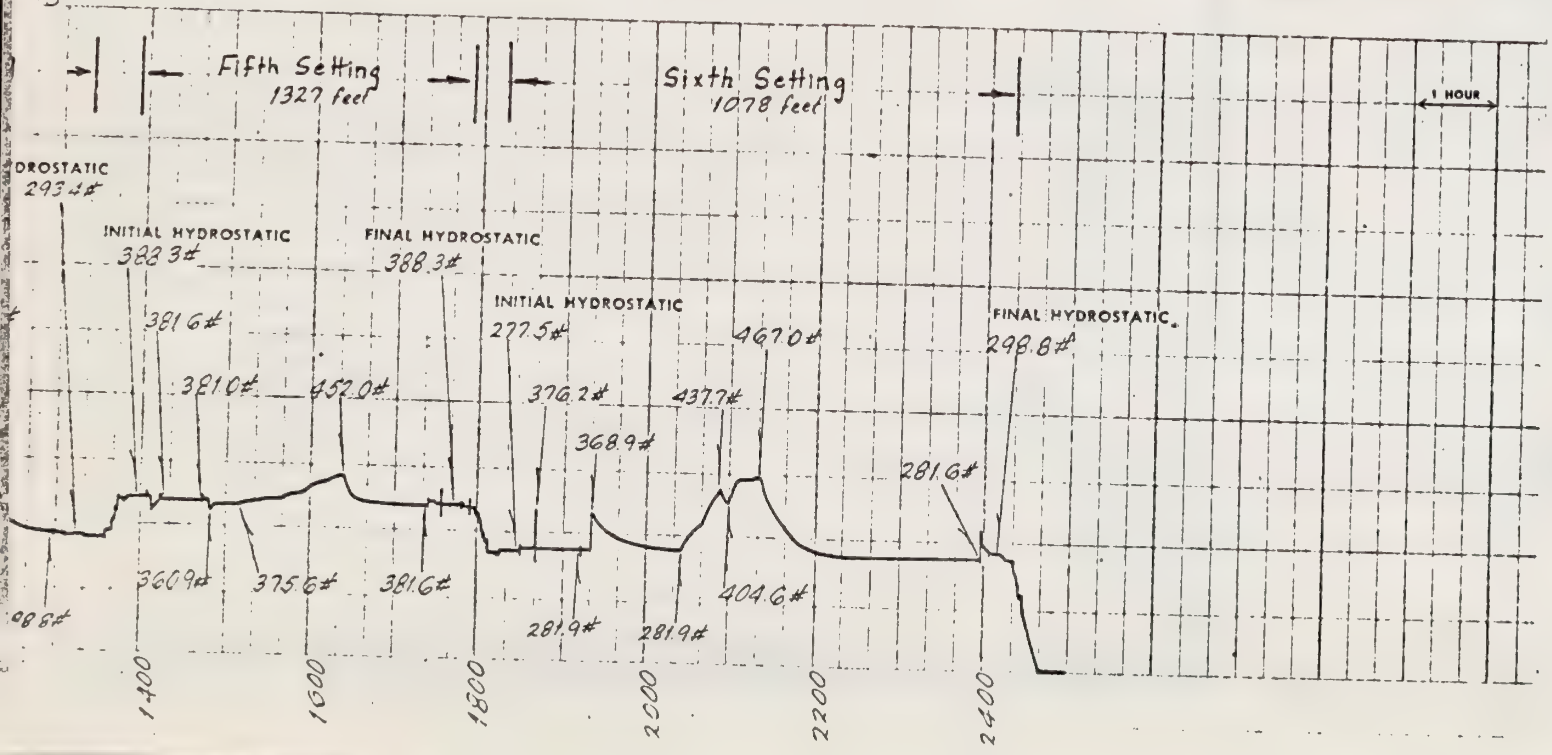
Capacity 1600 p.s.i.

Depth see settings *

* continuous tracing of the original chart

II P-1729



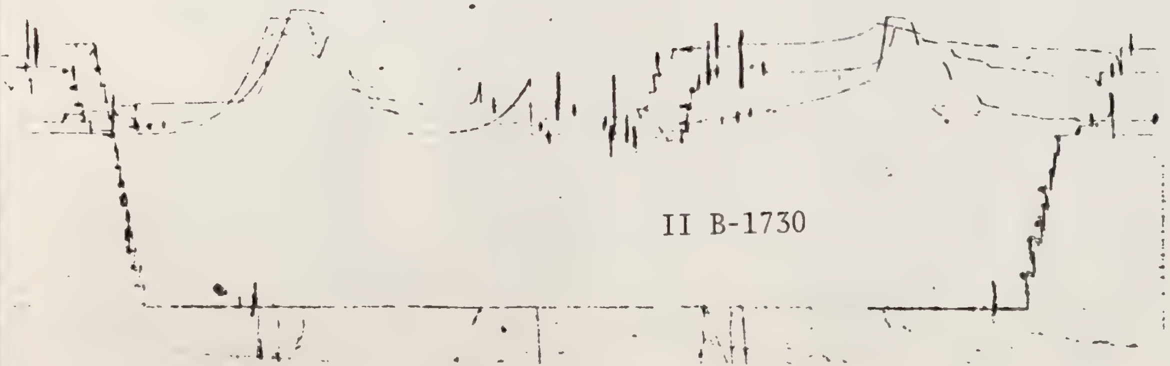


JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09092 C	J-080
CAPACITY	REPORTS REQUESTED
1600#	14+

2

J080
Series #3



JOHNSTON

PRESSURE LOG*

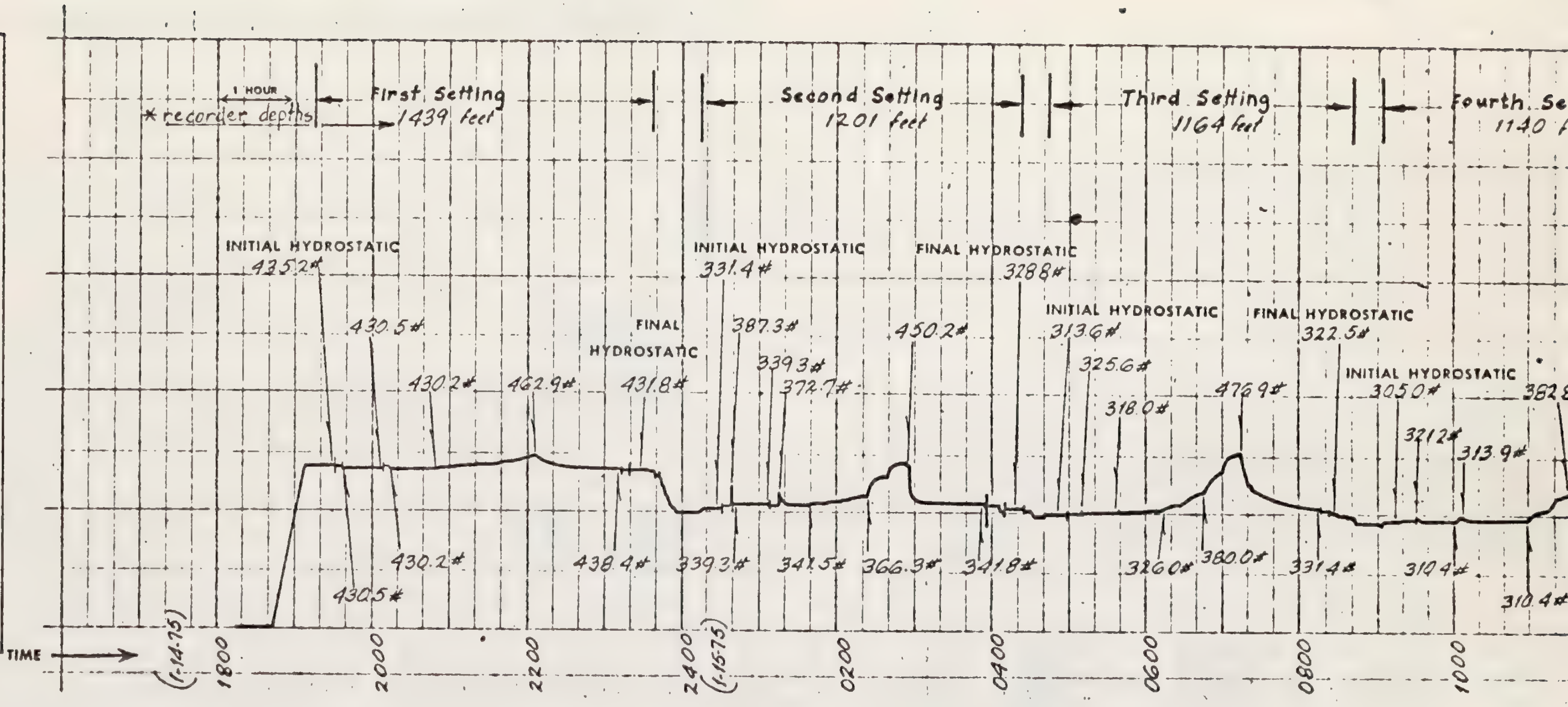
Field Report No. *09092 C*

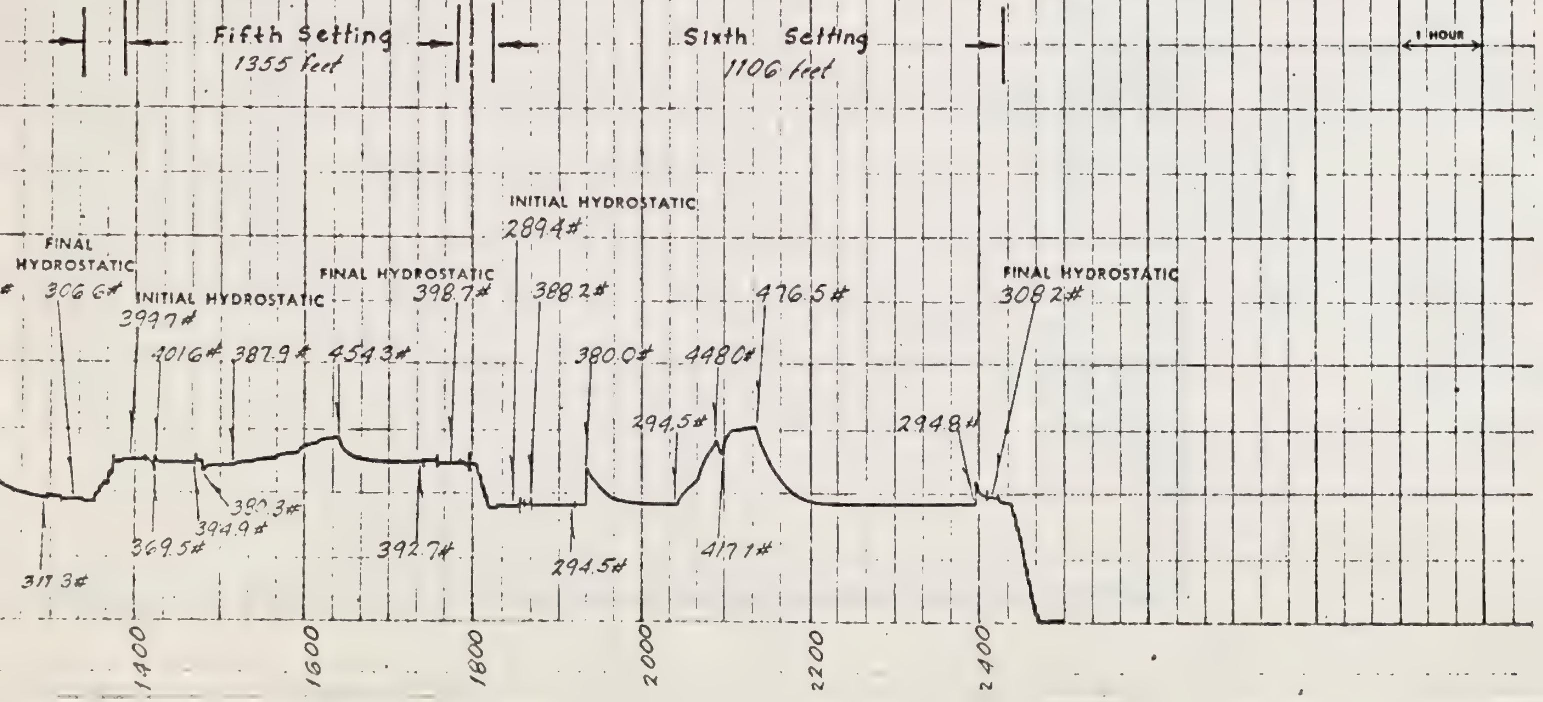
Instrument: Number *J-251*

Capacity *1600* p.s.i.

Depth *see settings* *

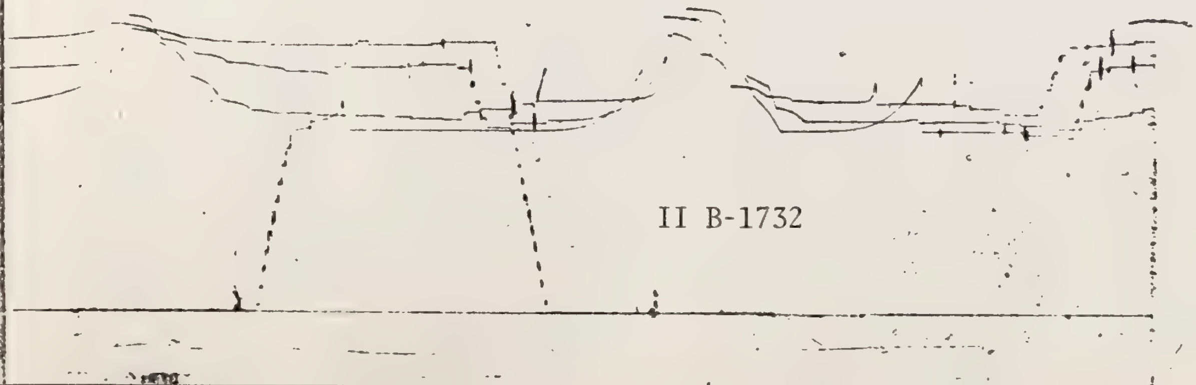
*a continuous tracing of the original chart





FIELD REPORT NO.	RECORDER NO.
09092 C	J-251
CAPACITY	REPORTS REQUESTED
1600#	14+

J251
Series #3



JOHNSTON

PRESSURE LOG*

Field Report No. 09092C

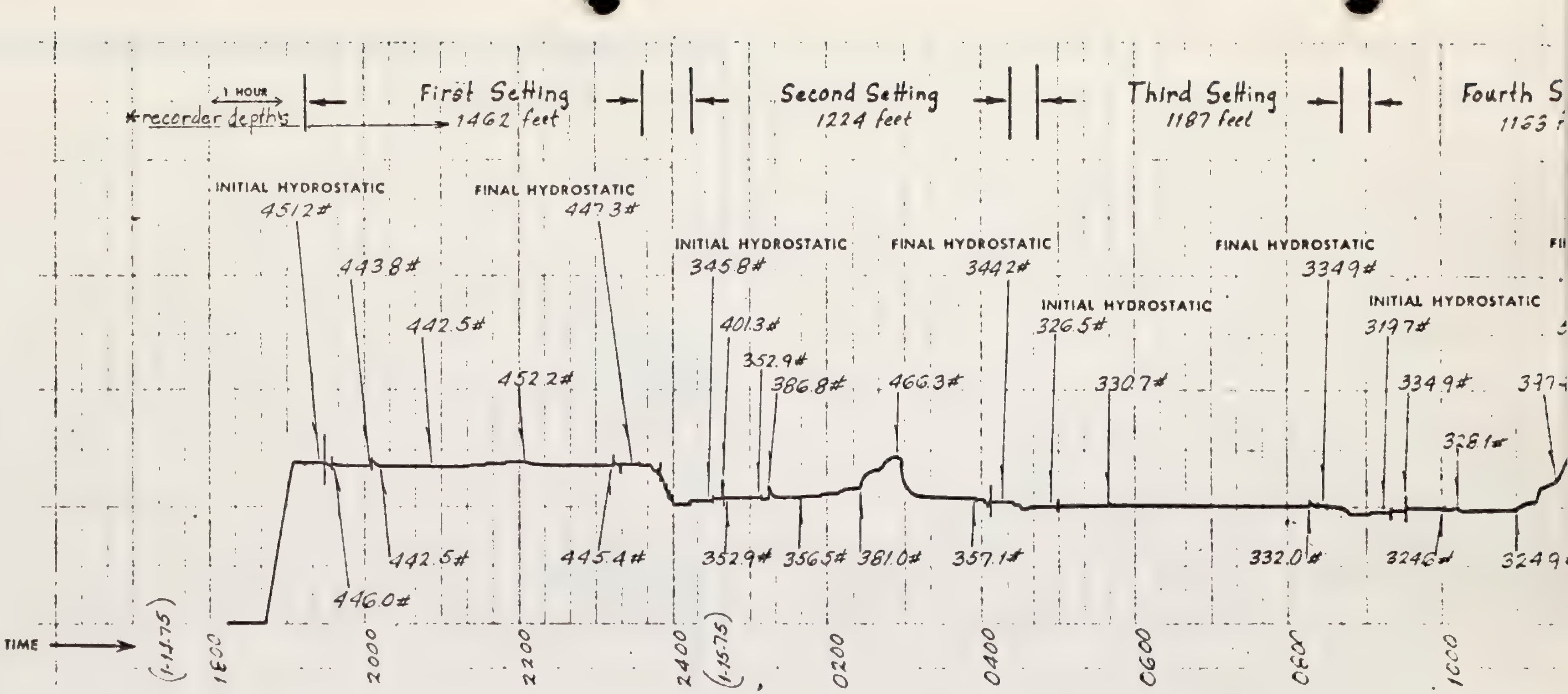
Instrument: Number J-114

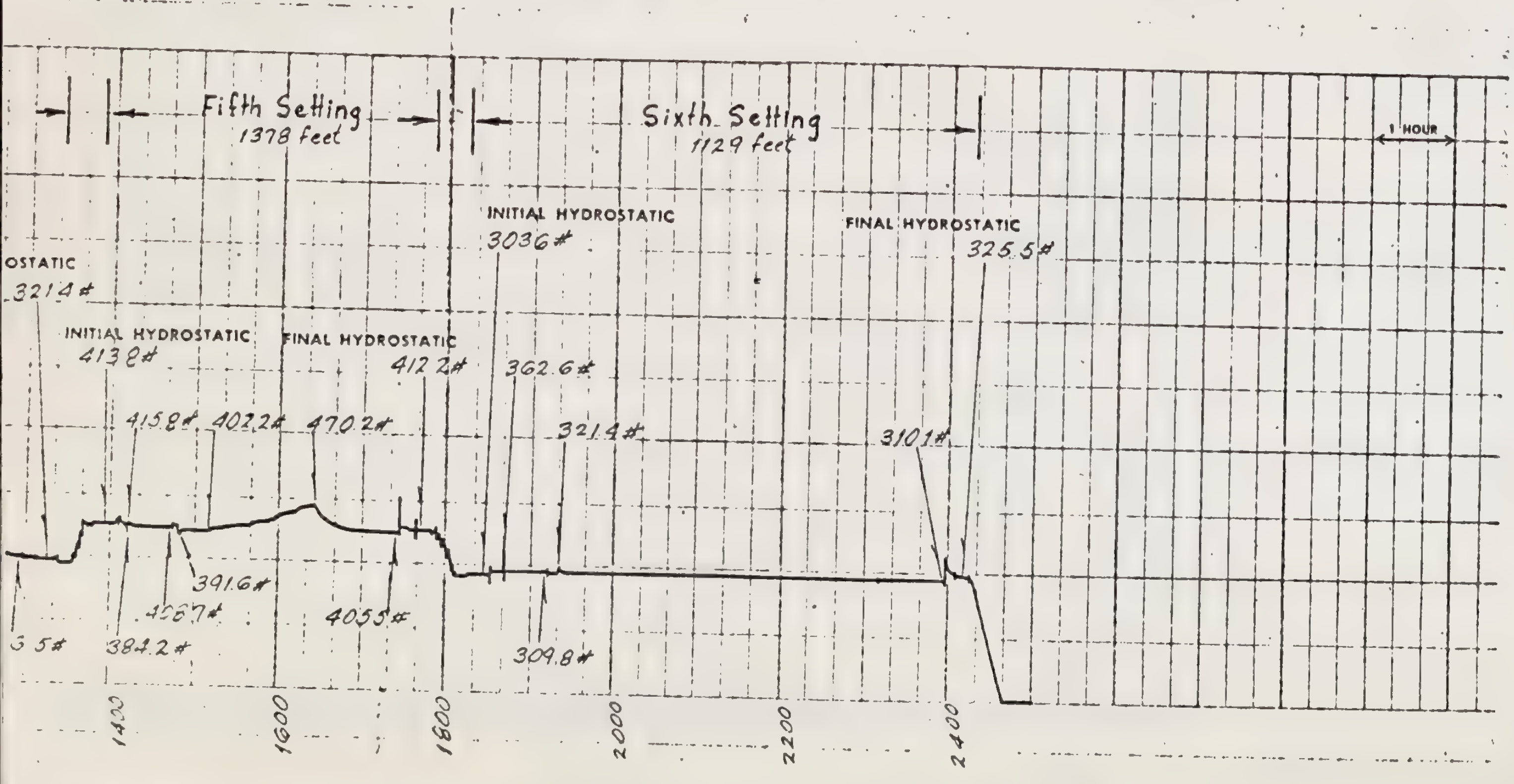
Capacity 1600 p.s.i.

Depth See settings*

*a continuous tracing of the original chart

II B-1733

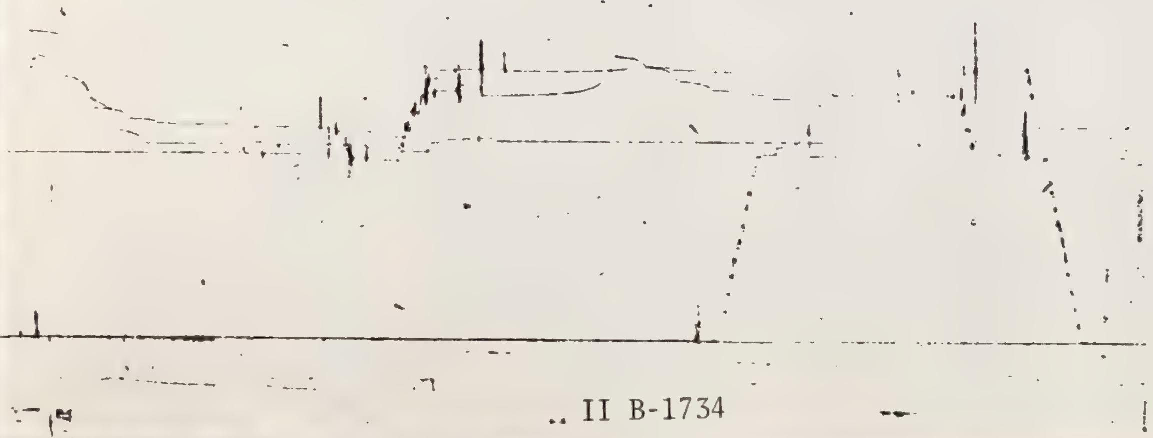




JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09092 C	J-114
CAPACITY	REPORTS REQUESTED
1600#	14+

J 114
2 Series #3



II B-1734

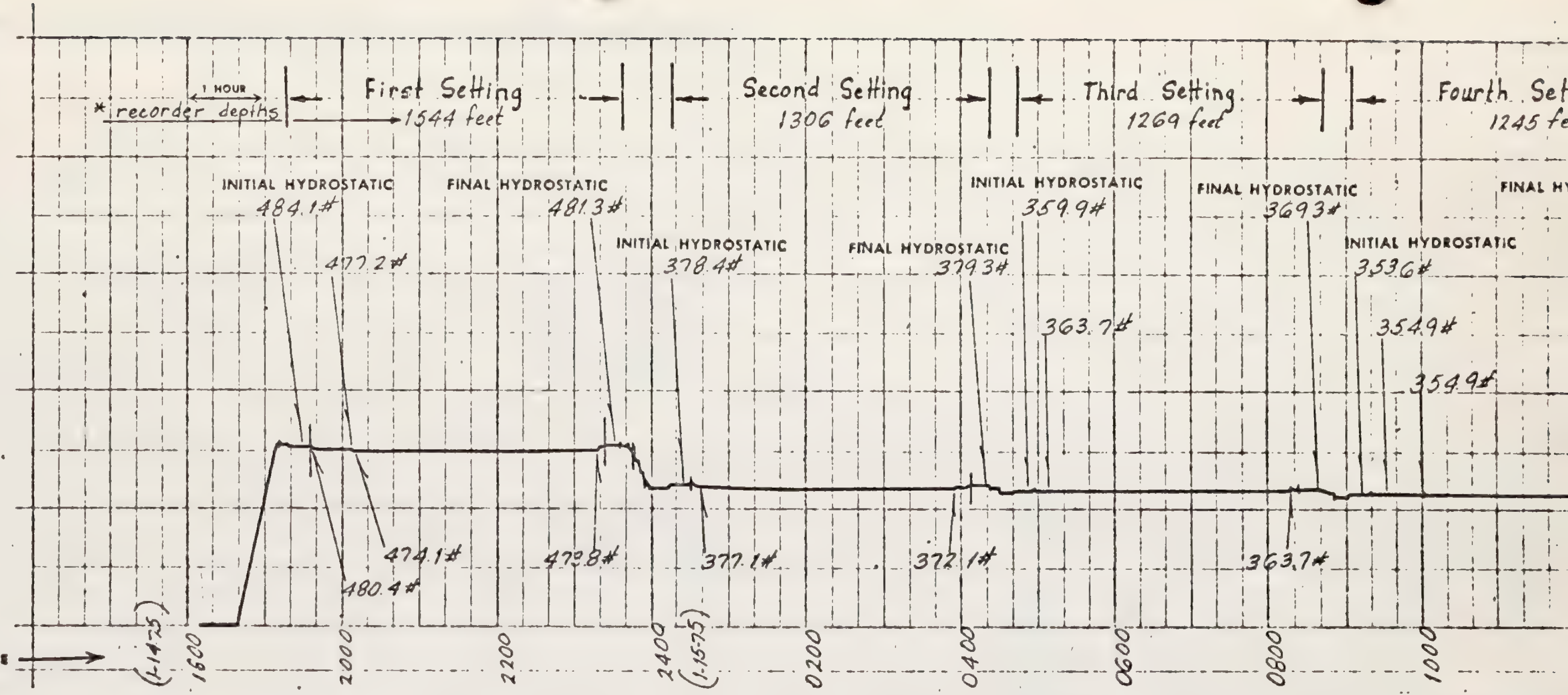
JOHNSTON

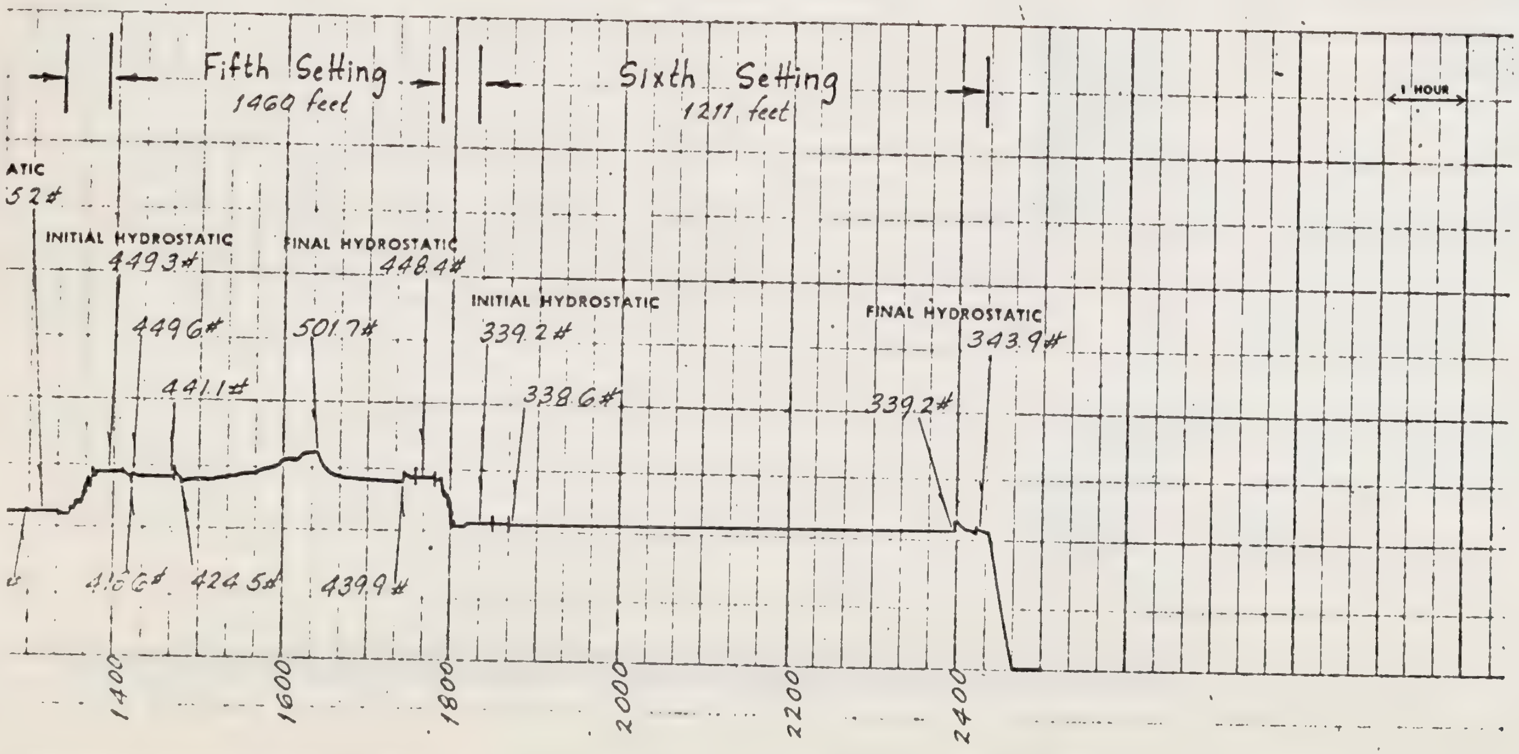
PRESSURE LOG*

Field Report No. 09092 C
Instrument: Number J-493
Capacity 1600 p.s.i.
Depth *see settings

*a continuous tracing of the original chart

II B-1735

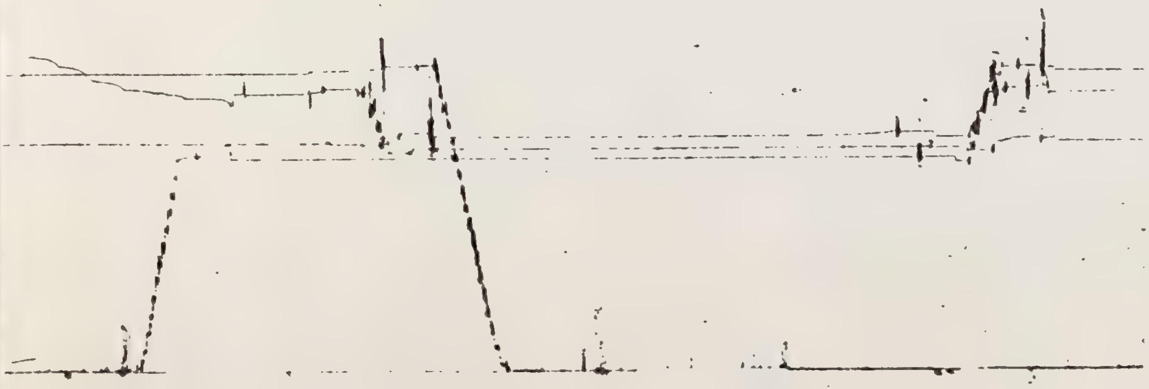




JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09092 C	J-493
CAPACITY	REPORTS REQUESTED
1600#	14+

J493
Series #3



MULTI-PACKER TEST SERIES NO. 2

SG-17

RECEIVED

FEB 14 1975

A. J. ROGERS

→ JRM

JOHNSTON

Schlumberger

technical report

COMPANY ATLANTIC-RICHFIELD COMPANY WELL FEDERAL S.G. #17 TEST NO. 2 COUNTY RIO BLANCO STATE COLORADO

II B-1686

MULTI-PACKER TEST SERIES #2
F. R. #09091 C

PAGE 1

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool			

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type AIR MIST Wt. -

Viscosity - Water Loss - C.C.

Resist: of Mud - @ - °F; of Filtrate - @ - °F

Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. SELECTIVE ZONE STRADDLE

Formation Tested GREEN RIVER /OPEN HOLE

Elevation 7036 Ft.

Net Productive Interval - Ft.

Estimated Porosity 10-50 (ESTIMATE) %

All Depths Measured From GROUND LEVEL

Total Depth 2460 Ft.

Main Hole/Casing Size 6 3/4"

Rat Hole/Liner Size -

Drill Collar Length - I.D. -

Drill Pipe Length - I.D. -

Packer Depth(s) ____ Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure ____ P.S.I.G. at Surface

Recovery: Cu. Ft. Gas ____

cc. Oil ____

cc. Water ____

cc. Mud ____

Tot. Liquid cc. ____

Gravity ____ °API @ ____ °F.

Gas/Oil Ratio ____ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: ____

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH

Well FEDERAL S.G. #17 Location 436'FWL 181'FSL SEC.16-3S-96W

Test Interval MULTI-PACKER TEST SERIES #2 Test # 2 Date 1-13-75

County RIO BLANCO State COLORADO

II B-1687

Technician BURNS(VERNAL) Test Approved By MR. JERRY L. BUSSELL

Field Report No. 09091 C

No. Reports Requested 14(13x)

EQUIPMENT SEQUENCE

COMPONENTS	SIZE / TYPE	LENGTH
DRILL PIPE	3.50" / RIF.	
DRILL COLLAR	4.75" / O.D.	
RECORDER	2 7/8" / FH SPERRY-SUN	
CIRCULATING SUB	4 3/4" / FH	1.00'
RECORDER	4 7/8" / J-200 JOHNSTON	6.00'
M.F.E. TOOL	5" / JOHNSTON DELAY	10.00'
M.F.E. BY-PASS	5" / HYDRAULIC	4.00'
JARS	4 3/4" / HS-1	4.00'
RECORDER	4 7/8" / J-200 JOHNSTON	6.00'
SAFETY JOINT	4 3/4" / BOWEN	2.00'
SAFETY SEAL & PACKER	5 3/4" / BOB-TAIL	10.00'
RECORDER	4 7/8" / J-200 JOHNSTON	6.00'
PERFORATED ANCHOR		12.00'
BLANK-OFF SUB & PACKER	5 3/4" / FH	6.00'
RECORDER	4 7/8" / J-200 JOHNSTON	6.00'
PERFORATED ANCHOR		
PACKER	5 3/4" / BOB-TAIL	
BLANK-OFF SUB	4 3/4" / FH	
SELECTIVE ZONE ANCHORING DEVICE	5 3/4" / HW	
RECORDER	4 7/8" / J-200 JOHNSTON	

MULTI-PACKER TEST SERIES #2 FIELD REPORT #09091 C

	PACKER DEPTHS			SELECTIVE ZONE	
ZONE	TOP	2ND	3RD	ANCHOR DEPTH	SETTING
#1	1362'	1386'	1410'	1427'	1
#2	ATTEMPTS TO SET SELECTIVE ANCHORING DEVICE FAILED.				-
#3	1184'	1208'	1232'	1249'	2

NEXT ATTEMPT TO SET SELECTIVE ANCHORING DEVICE FAILED. PULLED OUT OF HOLE.

INSTRUMENT NUMBER		J-068	J-080	J-251	J-114	J-493
CAPACITY		1600#	1600#	1600#	1600#	1600#
INSIDE-OUTSIDE		OUTSIDE	INSIDE	OUTSIDE	OUTSIDE	OUTSIDE
CLOCK CAPACITY - HOURS		96	96	96	96	96
ZONE NUMBER	SETTING NUMBER	DEPTHS				
1	1	1329'	1351'	1379'	1402'	1429'
3	2	1151'	1173'	1201'	1224'	1251'

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE P.S.I.G.)
INITIAL HYDROSTATIC FOR 1ST SETTING	0948-1003	-	383.3	394.2	406.8	418.2	427.1
CLOSED TOOL FOR INITIAL SHUT-IN	1015	0	379.8	391.0	403.6	418.5	427.7
		2	379.8	391.0	403.6	418.5	427.7
		4	379.8	391.0	403.6	418.8	427.7
		6	379.8	391.0	403.6	418.8	427.7
		8	379.8	391.0	403.6	418.8	427.7
		10	379.8	391.0	403.9	418.8	427.7
		12	379.8	391.0	403.9	418.8	427.7
		14	379.8	391.0	403.9	418.8	427.7
		16	380.2	391.0	403.9	418.8	427.7
		18	380.2	391.0	403.9	418.8	427.7
		20	380.2	391.0	403.9	418.8	427.7
		22	380.2	391.0	403.9	418.8	427.7
		24	380.2	391.0	403.9	418.8	427.7
		26	380.2	391.0	403.9	418.8	427.7
		28	380.2	391.0	403.9	418.8	427.7
INITIAL SHUT-IN - CYCLED TOOL	1045	30	380.2	391.0	403.9	418.8	427.7
		32	381.7	393.9	402.6	418.8	427.7
		34	381.7	393.9	403.2	418.8	427.7
TOOL RE-OPENED FOR WATER INFLOW	1050	35	381.7	333.2	403.2	418.8	424.2
		36	381.7	360.3	403.2	418.8	424.2
		38	381.7	384.6	403.2	418.8	424.2
		40	381.7	386.5	403.2	418.8	424.2
		42	381.7	387.8	403.2	418.8	424.2
		44	381.7	388.8	403.2	418.8	424.2
		46	381.7	389.1	403.2	418.8	424.2
		48	381.7	389.7	403.2	418.8	424.2
		50	381.7	390.0	403.2	418.8	424.2
		52	381.7	390.4	403.2	418.8	424.2
		54	381.7	390.7	403.2	418.8	424.2
		56	381.7	390.7	403.2	418.8	424.2
		58	381.7	390.7	403.2	418.8	424.2
		60	381.7	391.0	403.2	418.8	424.2
		62	381.7	391.0	403.2	419.1	424.2
		64	381.7	391.0	403.2	419.1	424.2
		66	381.7	391.0	403.2	419.1	424.2
		68	381.7	391.0	403.2	419.1	424.2
STARTED INJECTING 5 GAL./MIN.	1125	70	381.7	391.0	403.2	419.1	424.2
		72	381.7	392.0	403.2	419.1	426.8
		74	381.7	392.3	403.2	419.1	426.8
		76	381.7	392.6	403.2	419.1	426.8
		78	381.7	392.9	403.2	419.1	426.8
		80	381.7	392.9	403.2	419.1	426.8

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		82	381.7	392.9	403.2	419.1	426.8
		84	381.7	392.9	403.2	419.1	426.8
		86	381.7	392.9	403.2	419.1	426.8
		88	381.7	393.2	403.2	419.1	426.8
		90	381.7	393.2	403.2	419.1	426.8
		92	381.7	393.5	403.2	419.1	426.8
		94	381.7	394.2	403.2	419.1	426.8
		96	381.7	394.2	403.2	419.1	426.8
		98	381.7	394.2	403.2	419.1	426.8
STARTED INJECTING 10 GAL./MIN.	1155	100	381.7	394.2	403.2	419.1	426.8
		102	383.0	394.8	409.3	423.3	428.3
		104	383.3	395.5	409.3	423.3	428.3
		106	383.7	395.5	409.3	423.3	428.3
		108	384.0	395.8	409.3	423.3	428.3
		110	384.0	396.1	409.6	423.3	428.3
		112	384.0	396.1	409.6	423.3	428.3
		114	384.0	396.1	409.6	423.3	428.3
STARTED INJECTING 20 GAL./MIN.	1210	115	384.0	396.1	409.6	423.3	428.3
		116	384.6	397.4	409.6	423.3	429.3
		118	385.2	398.3	409.6	423.3	429.3
		120	385.6	398.7	410.0	423.3	431.8
		122	386.2	399.0	410.0	423.3	431.8
		124	386.5	399.3	410.0	423.3	431.8
		126	386.5	399.6	410.0	423.3	431.8
		128	386.8	399.9	410.0	423.3	431.8
STARTED INJECTING 30 GAL./MIN.	1225	130	387.2	399.9	410.0	423.3	431.8
		132	387.5	401.9	413.8	426.6	432.7
		134	388.4	403.8	413.8	426.6	433.4
		136	389.1	404.7	413.8	426.6	434.3
		138	389.7	405.4	414.1	426.6	434.9
		140	390.0	406.3	414.1	426.6	435.6
		142	390.7	406.6	414.1	426.6	436.2
		144	390.7	406.6	414.1	426.6	436.5
STARTED INJECTING 40 GAL./MIN.	1240	145	390.7	406.6	414.1	426.6	436.5
		146	391.3	408.6	416.0	429.8	437.5
		148	391.6	409.2	416.0	429.8	438.1
		150	392.2	409.8	416.7	429.8	438.4
		152	392.6	410.2	417.0	429.8	438.7
		154	392.9	410.5	417.3	429.8	439.0
		156	393.2	410.8	417.9	429.8	439.3
		158	393.2	411.1	418.6	429.8	439.7
STARTED INJECTING 50 GAL./MIN.	1255	160	393.5	411.1	419.2	429.8	440.3
		162	394.5	413.7	419.9	432.4	440.9
		164	395.1	416.2	420.5	432.4	441.2

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

Description	Time of Day	Incre.	Instrument # J-068 Pressure(P.S.I.G.)	Instrument # J-080 Pressure(P.S.I.G.)	Instrument # J-251 Pressure(P.S.I.G.)	Instrument # J-114 Pressure(P.S.I.G.)	Instrument # J-493 Pressure(P.S.I.G.)
		166	395.7	418.1	421.1	432.4	441.9
		168	396.4	419.7	421.4	432.4	442.2
		170	397.0	420.7	421.4	432.4	442.8
		172	397.7	420.7	422.4	432.4	443.1
		174	398.0	421.0	423.7	432.4	443.1
STARTED INJECTING 60 GAL./MIN.	1310	175	398.3	421.3	424.0	432.4	443.1
		176	398.6	423.9	424.3	435.3	443.8
		178	399.9	426.4	425.0	435.3	445.0
		180	400.8	428.0	425.9	435.3	446.0
		182	401.8	429.0	426.6	435.3	446.6
		184	402.4	429.6	426.9	437.9	447.2
		186	403.4	430.9	427.8	438.2	447.8
		188	404.0	431.6	428.2	438.2	448.5
		190	404.7	432.2	428.5	438.2	449.1
		192	405.0	432.5	428.5	440.2	449.4
		194	405.3	433.2	428.5	440.5	449.7
		196	405.3	433.5	428.5	440.5	449.7
		198	405.3	433.5	428.5	440.5	449.7
		200	405.3	433.5	428.5	440.5	449.7
		202	405.3	433.5	428.5	442.1	449.7
		204	405.3	433.5	428.5	442.1	449.7
FINISHED INJECTION - STARTED FALL-OFF.	1340	205	405.3	433.5	428.5	442.1	449.7
		206	404.7	424.8	425.6	439.8	447.2
		208	403.4	416.5	422.4	436.0	444.4
		210	401.5	413.0	420.2	434.3	441.6
		212	399.9	410.2	418.3	433.1	439.3
		214	398.3	408.2	417.0	431.1	437.8
		216	397.3	406.3	415.7	429.5	436.2
		218	396.4	404.7	414.7	428.5	435.3
		220	395.4	403.5	414.1	427.2	434.3
		222	394.8	402.5	413.5	426.9	433.4
		224	394.2	401.9	412.8	425.6	432.7
		226	393.8	400.9	412.2	425.6	432.1
		228	393.2	400.3	411.9	425.6	431.8
		230	392.9	399.6	411.5	424.6	431.5
		232	392.6	399.3	411.2	424.6	431.2
		234	392.6	399.0	410.9	424.6	430.8
		236	392.2	398.7	410.9	424.6	430.8
		238	391.9	398.7	410.9	423.3	430.5
		240	391.9	398.3	410.9	423.3	430.5
		242	391.6	398.0	410.6	423.3	430.2
		244	391.6	398.0	410.6	423.3	430.2
		246	391.6	398.0	410.6	423.3	430.2

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		248	391.3	397.7	410.6	423.3	430.2
		250	391.3	397.7	410.6	423.3	430.2
		252	391.3	397.7	410.3	423.3	430.2
		254	391.3	397.7	410.3	423.3	430.2
		256	391.0	397.7	410.3	423.3	430.2
		258	391.0	397.7	410.3	423.3	430.2
		260	391.0	397.7	410.3	423.3	430.2
		262	391.0	397.7	410.3	423.3	430.2
		264	391.0	397.7	410.3	423.3	430.2
FINISHED FALL-OFF - CYCLED TOOL	1440	265	391.0	397.7	410.3	423.3	430.2
PULLED PACKER LOOSE	1449	-	388.1	394.8	406.4	418.8	426.8
FINAL HYDROSTATIC	1449-1507	-	379.2	388.1	401.3	414.9	423.3
MOVED UP HOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 2ND SETTING.	1643-1658		304.5	315.6	328.9	342.8	352.4
OPENED TOOL	1703	0	314.0	318.5	375.5	355.4	371.0
		2	305.7	319.1	331.4	350.2	351.2
CLOSED TOOL FOR INITIAL SHUT-IN	1707	4	305.4	322.0	331.4	350.2	351.2
		6	305.4	320.4	331.7	350.2	349.0
		8	305.4	320.4	332.4	350.2	349.0
		10	305.4	320.4	332.4	350.2	349.0
		12	305.4	320.4	332.4	350.2	348.3
		14	305.4	320.4	332.4	350.2	348.0
		16	305.7	320.4	332.4	350.2	347.4
		18	305.7	320.4	332.4	350.2	346.8
		20	305.7	320.4	332.4	350.2	346.5
		22	305.7	320.4	332.4	350.2	346.1
		24	305.7	320.4	332.4	350.2	345.8
		26	305.7	320.4	332.4	350.2	345.5
		28	305.7	320.4	332.4	350.2	345.2
		30	305.7	320.4	332.4	350.2	345.2
		32	305.7	320.4	332.4	350.2	345.2
INITIAL SHUT-IN - CYCLED TOOL	1737	34	305.7	320.4	332.4	350.2	345.2
		36	305.7	321.0	333.0	350.2	344.9
		38	305.7	321.0	333.0	350.2	344.9
TOOL RE-OPENED FOR WATER INFLOW.	1743	40	306.4	347.6	356.6	365.7	352.4
		42	306.4	331.6	343.2	351.2	345.8
		44	306.4	325.5	338.1	351.2	345.5
		46	306.4	324.6	337.8	351.2	345.2
		48	306.4	324.2	337.5	351.2	345.2
		50	306.4	324.2	337.5	351.2	344.9
		52	306.4	324.2	337.5	351.2	344.9
		54	306.4	324.2	337.5	351.2	344.6
		56	306.4	324.2	337.5	351.2	344.6

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		58	306.4	324.2	337.5	351.2	344.6
		60	306.4	323.9	337.5	351.2	344.6
STARTED INJECTING 5 GAL./MIN.	1805	62	306.4	323.9	337.5	351.2	344.6
		64	306.7	329.0	341.0	351.2	344.6
		66	306.7	330.9	342.6	351.2	344.2
		68	306.7	331.3	343.2	351.2	344.2
		70	306.7	331.9	344.5	351.2	344.2
		72	306.7	331.9	344.8	351.2	344.2
		74	306.7	332.2	345.5	351.2	344.2
		76	306.7	332.2	345.8	351.2	344.2
STARTED INJECTING 10 GAL./MIN.	1820	77	306.7	332.2	346.1	351.2	344.2
		78	306.7	335.1	348.3	351.2	344.2
		80	306.7	336.7	349.6	351.2	344.2
		82	306.7	337.3	349.6	351.2	344.2
		84	306.7	337.3	349.6	351.2	344.2
		86	306.7	337.7	349.6	351.2	344.2
		88	306.7	338.0	349.6	351.2	344.2
		90	306.7	338.0	349.6	351.2	344.2
STARTED INJECTING 20 GAL./MIN.	1835	92	306.7	338.3	349.6	351.2	344.2
		94	306.7	350.7	361.7	351.2	344.2
		96	306.7	357.1	367.8	351.2	344.2
		98	306.7	360.3	370.7	351.2	344.2
		100	306.7	361.9	372.0	351.2	344.2
		102	306.7	362.9	372.9	351.2	344.2
		104	306.7	363.5	373.6	351.2	344.2
		106	306.7	364.2	374.2	351.2	344.2
STARTED INJECTING 30 GAL./MIN.	1850	107	306.7	364.5	374.5	351.2	344.2
		108	306.7	372.1	381.2	353.4	344.2
		110	306.7	383.6	391.8	353.4	344.2
		112	306.7	389.1	396.9	353.4	344.2
		114	306.7	389.1	396.9	353.4	344.2
		116	306.7	389.1	396.9	355.4	344.2
		118	306.7	389.1	396.9	355.4	344.2
		120	306.7	389.1	396.9	355.4	344.2
STARTED INJECTING 40 GAL./MIN.	1905	122	306.7	389.1	396.9	355.4	344.2
		124	306.7	408.6	415.1	357.3	344.2
		126	306.7	413.4	419.9	357.3	344.2
		128	306.7	417.8	424.0	357.3	344.2
		130	306.7	420.7	426.6	359.3	344.2
		132	306.7	423.3	428.5	359.3	344.2
		134	306.7	424.2	429.4	359.3	344.2
		136	306.7	424.5	429.7	359.3	344.2
STARTED INJECTING 60 GAL./MIN.	1920	137	306.7	424.8	430.1	359.3	344.2

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

Description	Time of Day	Incre.	Instrument # J-068 Pressure (P.S.I.G.)	Instrument # J-080 Pressure (P.S.I.G.)	Instrument # J-251 Pressure (P.S.I.G.)	Instrument # J-114 Pressure (P.S.I.G.)	Instrument # J-493 Pressure P.S.I.G.
		138	306.7	441.1	440.6	362.2	344.2
		140	306.7	458.1	458.8	363.8	344.2
		142	306.7	468.0	467.7	365.1	344.2
STABILIZED INJECTION	1926	143	306.7	472.1	471.9	365.1	344.2
		144	306.7	472.1	472.9	366.4	344.2
		146	306.7	466.4	470.3	366.4	344.2
		148	306.7	475.6	476.4	366.4	344.2
		150	306.7	477.2	478.0	367.4	344.2
		152	306.7	477.9	478.9	367.4	344.2
		154	306.7	478.2	478.9	367.4	344.2
		156	306.7	478.2	478.9	367.4	344.2
FINISHED INJECTION - STARTED FALL-OFF.	1941	158	306.7	478.2	479.2	367.4	344.2
		160	306.7	410.2	412.5	364.1	344.2
		162	306.7	356.5	371.6	362.5	344.2
		164	306.7	339.6	352.2	360.9	344.2
		166	306.7	334.1	346.1	359.9	344.2
		168	306.7	331.9	343.9	359.3	344.2
		170	306.7	330.9	342.9	358.6	344.2
		172	306.7	330.3	342.3	358.3	344.2
		174	306.7	329.7	341.6	358.0	344.2
		176	306.7	329.3	341.0	357.7	344.2
		178	306.7	328.7	340.7	357.7	344.2
		180	306.7	328.4	340.3	357.3	344.2
		182	306.7	328.4	340.0	357.3	344.2
		184	306.7	328.4	340.0	357.0	344.2
		186	306.7	328.1	339.7	357.0	344.2
		188	306.7	328.1	339.4	357.0	344.2
		190	306.7	327.8	339.1	356.7	344.2
		192	306.7	327.8	339.1	356.7	344.2
		194	306.7	327.8	339.1	356.7	344.2
		196	306.7	327.4	339.1	356.7	344.2
		198	306.7	327.4	339.1	356.7	344.2
		200	306.7	327.4	339.1	356.7	344.2
		202	306.7	327.4	339.1	356.0	344.2
		204	306.7	327.1	338.7	356.0	344.2
		206	306.7	327.1	338.7	356.0	344.2
		208	306.7	327.1	338.7	356.0	344.2
		210	306.7	327.1	338.7	356.0	344.2
		212	306.7	327.1	338.4	356.0	344.2
		214	306.7	327.1	338.4	356.0	344.2
		216	306.7	327.1	338.4	356.0	344.2
FINISHED FALL-OFF - CYCLED TOOL.	2041	218	306.7	326.8	338.4	356.0	344.2
PULLED PACKER LOOSE		-	306.7	322.6	335.2	349.2	347.7
FINAL HYDROSTATIC		-	301.6	313.7	323.4	341.5	349.0

JOHNSTON

PRESSURE LOG*

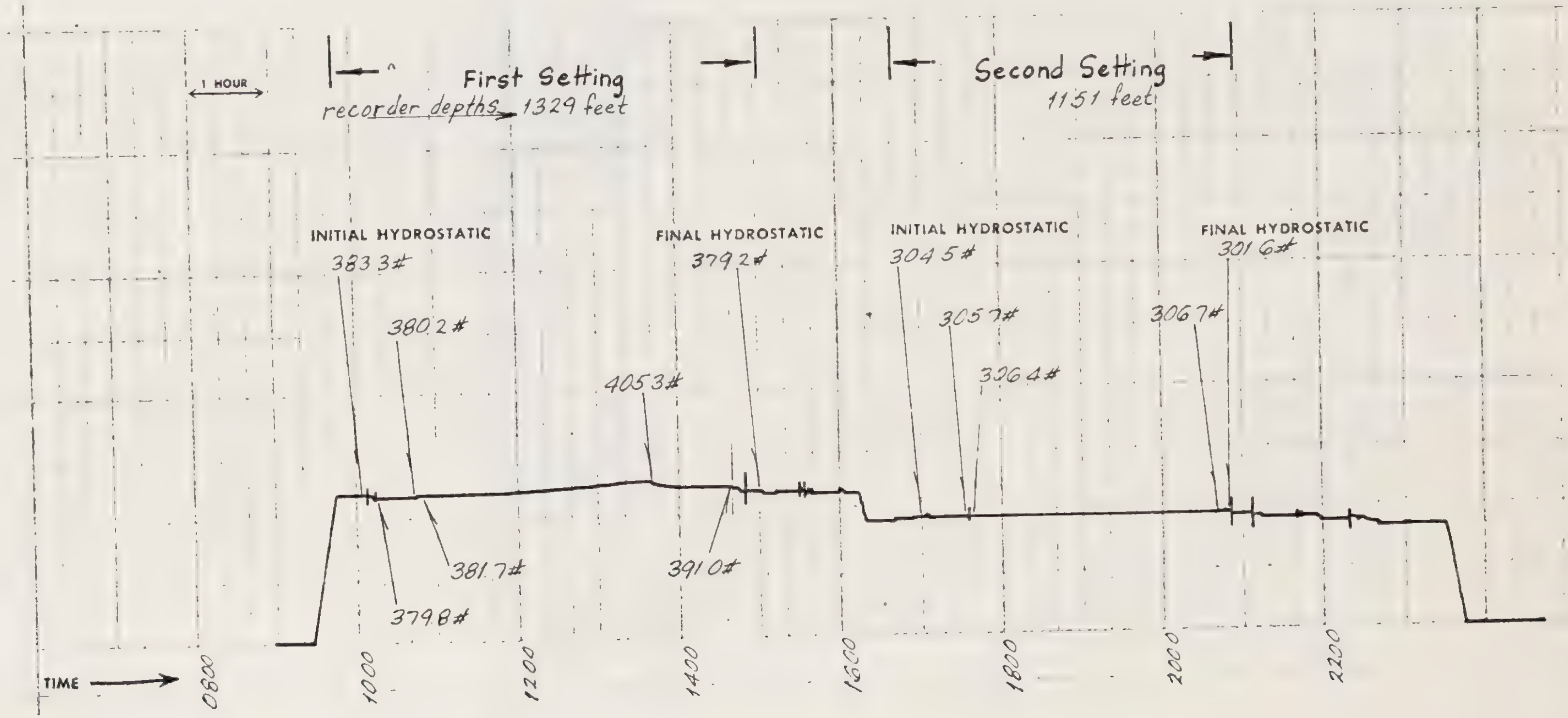
Field Report No. 09091 C

Instrument: Number J-068

Capacity 16C0 p.s.i.

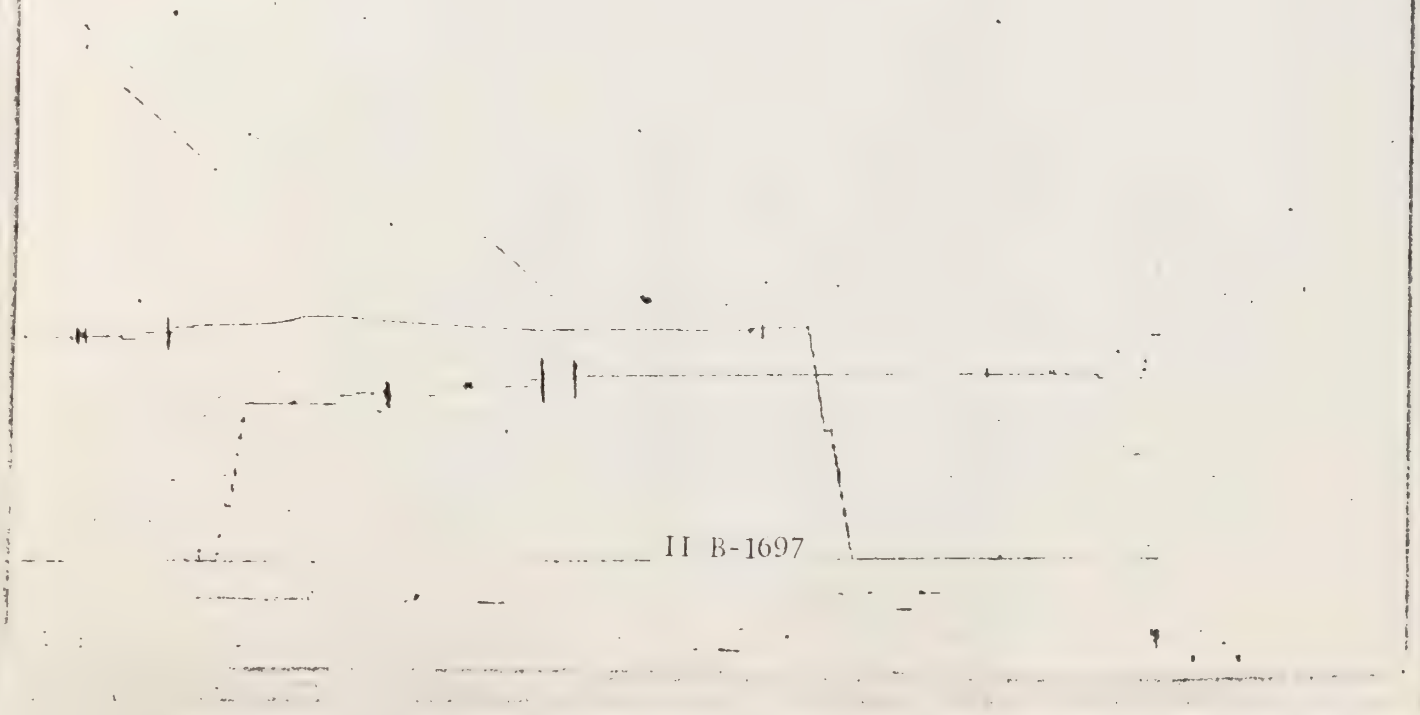
Depth See settings

*a continuous tracing of the original chart



JOHNSTON

FIELD REPORT NO.	RECORDER NO.	Series #2
09091 C	J-068	
CAPACITY	REPORTS REQUESTED	
1600#	14+	



JOHNSTON

PRESSURE LOG*

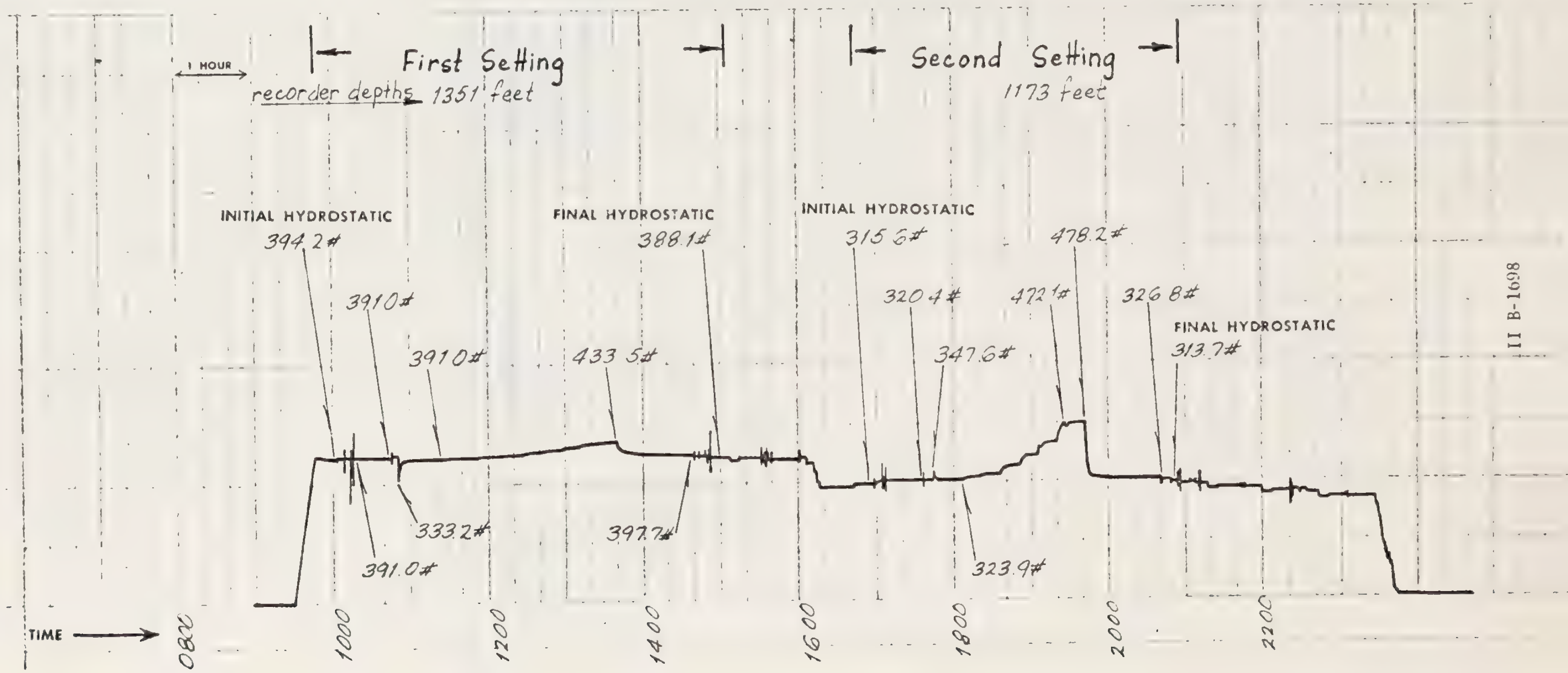
Field Report No. 09091 C

Instrument: Number J 080

Capacity 1600 p.s.i.

Depth see settings

*a continuous tracing of the original chart



JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09091 C	J-080
CAPACITY	REPORTS REQUESTED
1600#	14+

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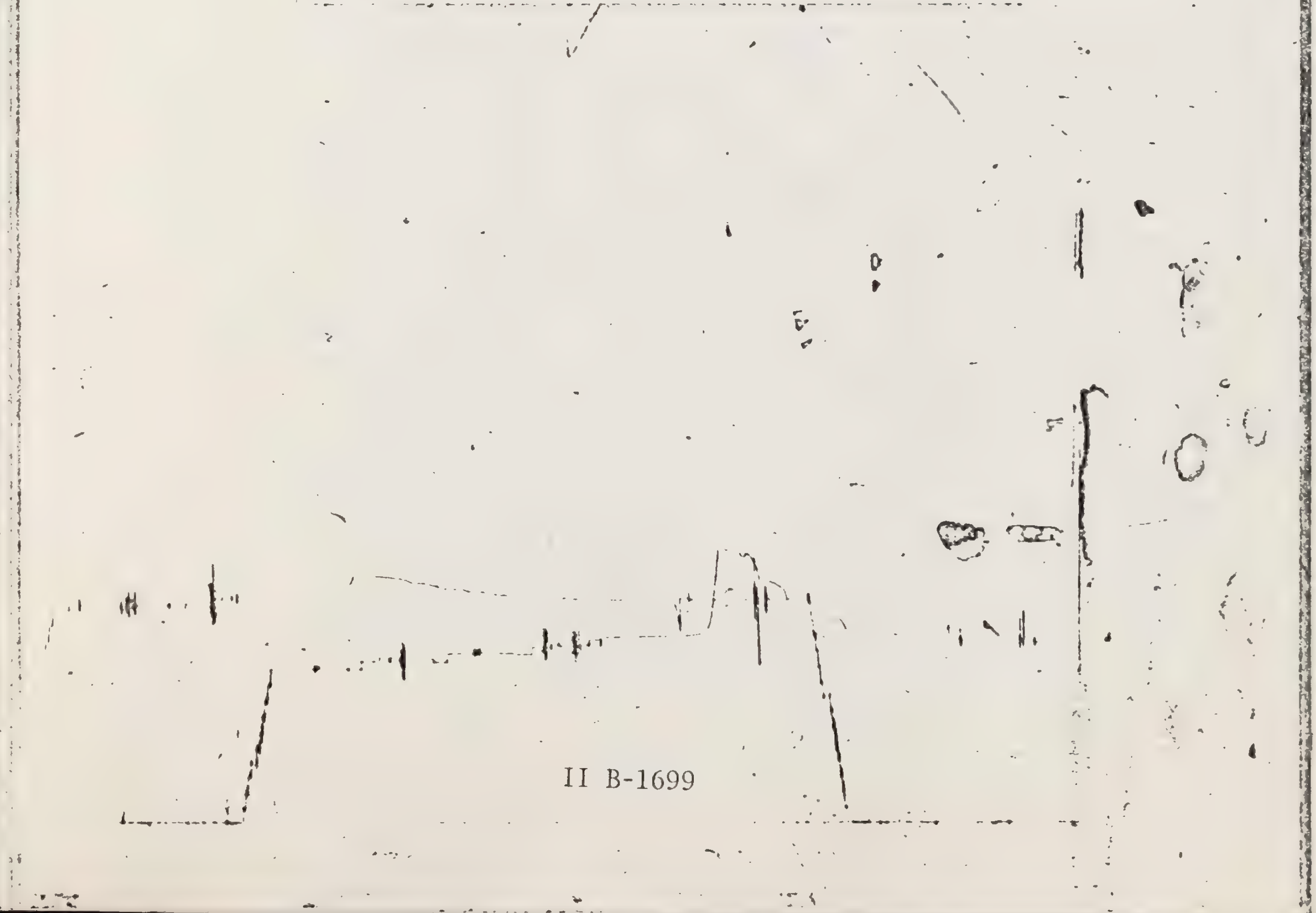
Series #2



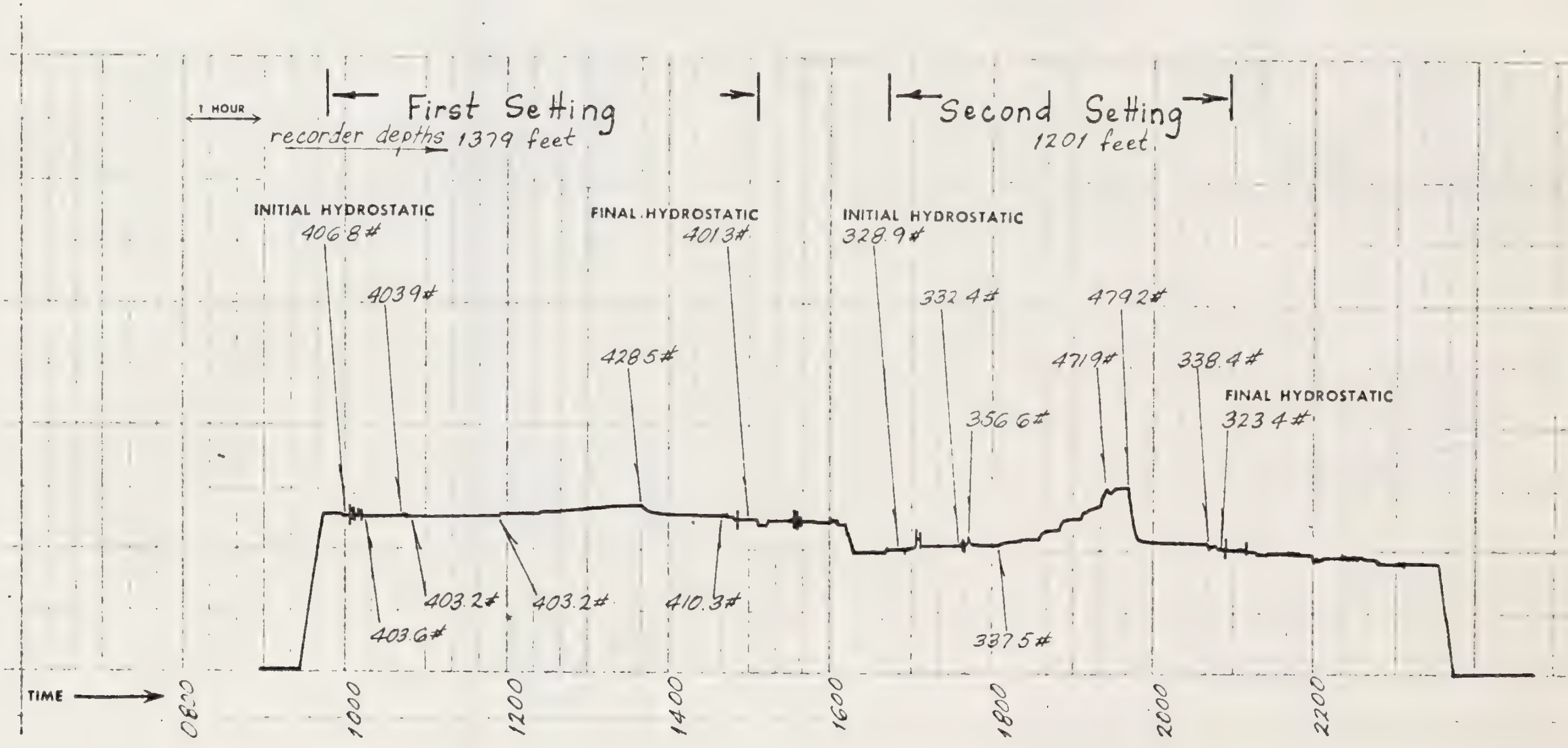
II B-1699

JOHNSTON

PRESSURE LOG*

Field Report No. 09091 C
Instrument: Number J-251
Capacity 1600 p.s.i.
Depth see settings

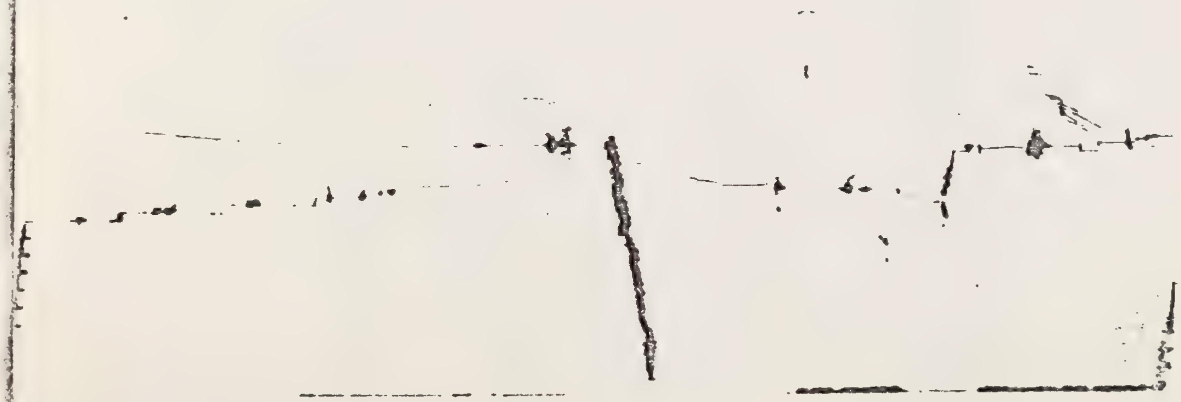
*a continuous tracing of the original chart



Series #2

JOHNSTON

FIELD REPORT NO.	RECORDER NO.
09091 C	J-251
CAPACITY	REPORTS REQUESTED
1600#	14+

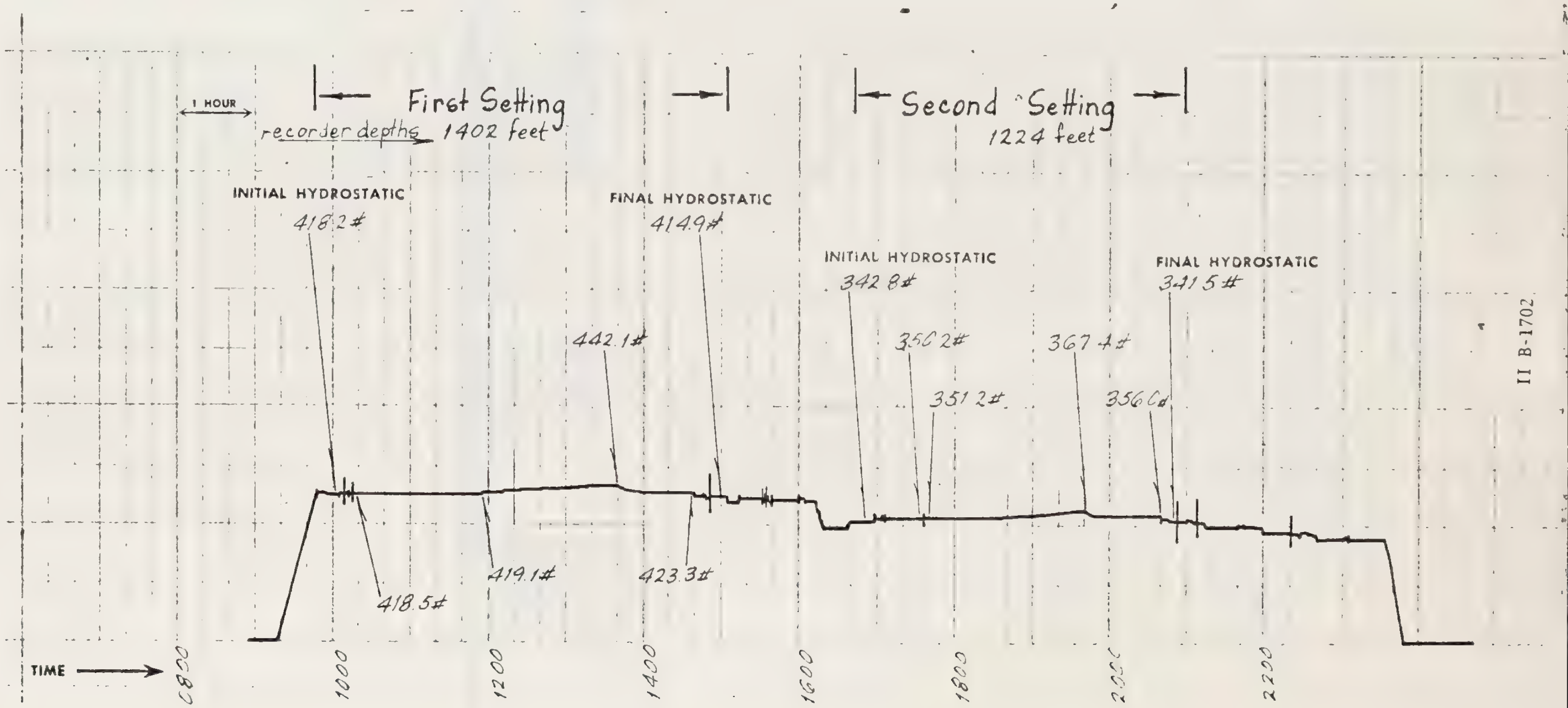


JOHNSTON

PRESSURE LOG*

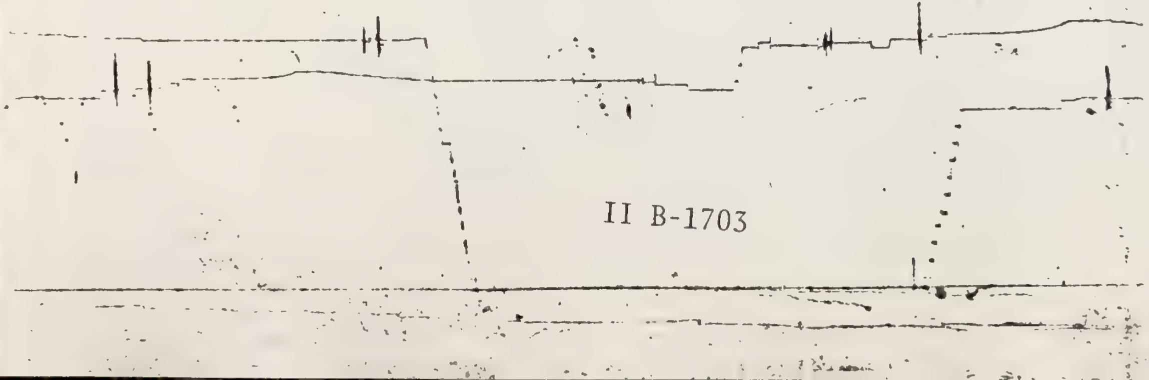
Field Report No. 09091 C
Instrument: Number J-114
Capacity 1600 p.s.i.
Depth See settings

*a continuous tracing of the original chart



FIELD REPORT NO.	RECORDER NO.
09091 C	J-114
CAPACITY	**REPORTS REQUESTED**
1600#	14+

SERIES #2



II B-1703

JOHNSTON

PRESSURE LOG*

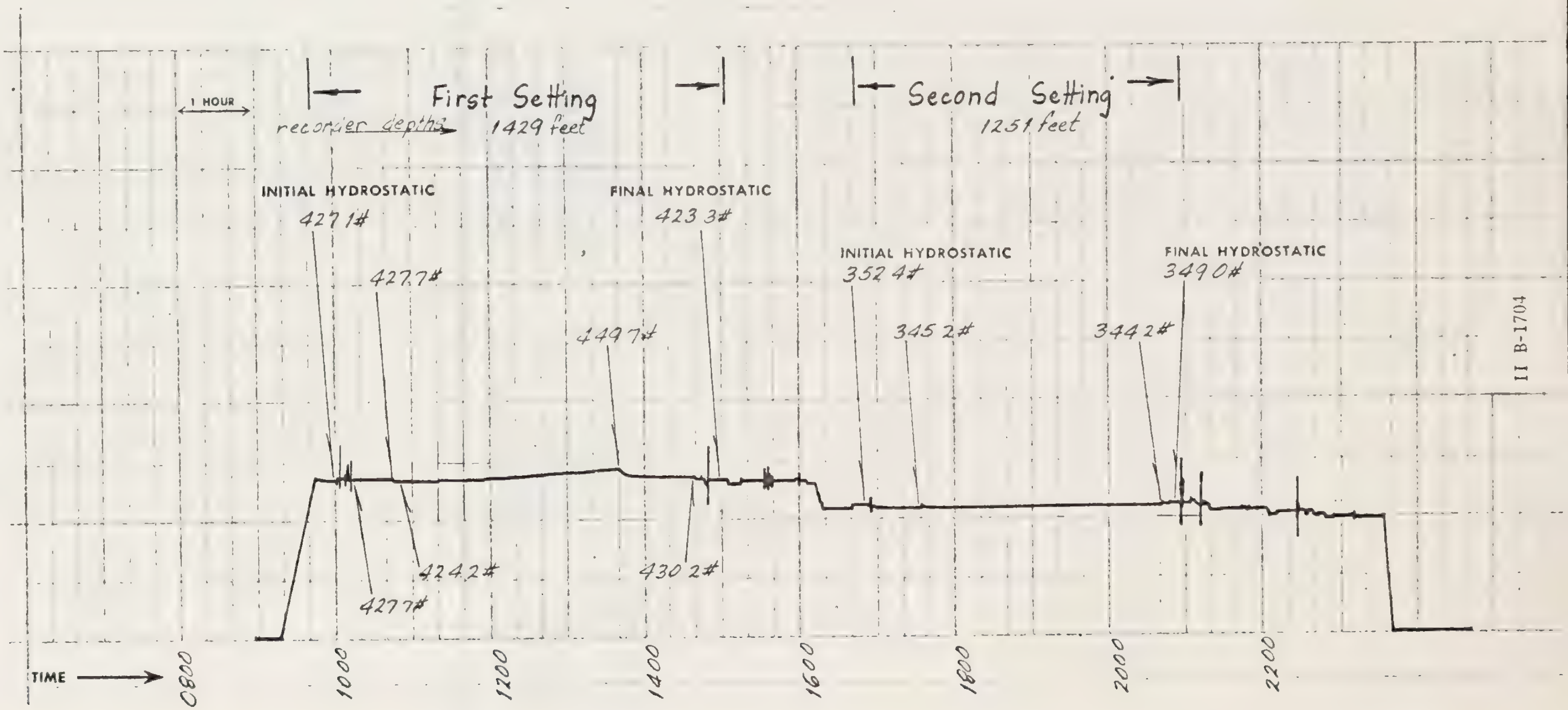
Field Report No. 09091C

Instrument: Number J-493

Capacity 1600 p.s.i.

Depth see settings

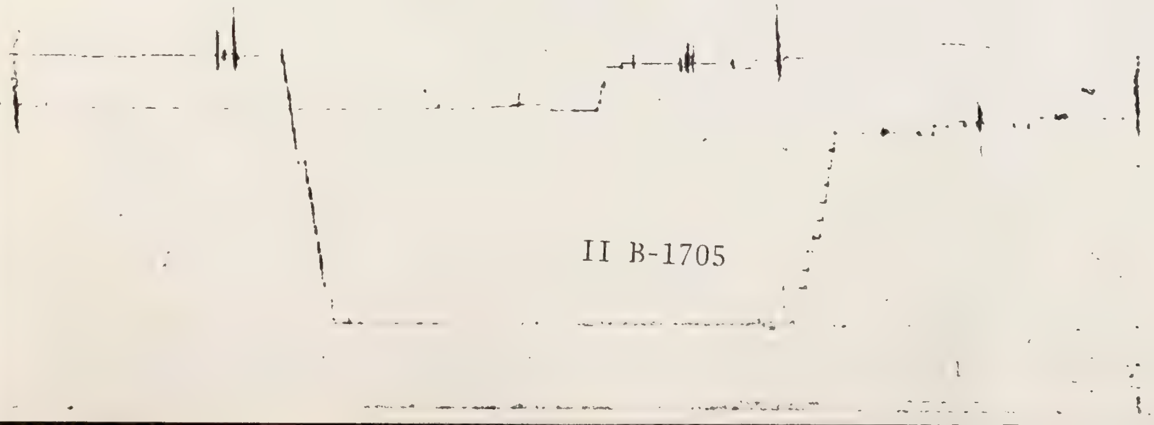
*a continuous tracing of the original chart



JOHNSTON

FIELD REPORT NO.	**RECORDER NO.**
09091 C	J-493
CAPACITY	**REPORTS REQUESTED**
1600#	14+

Series #2



JRM

JOHNSTON

Schlumberge

technical report

II B-1706

MULTI-PACKER TEST SERIES #3
F.R. #09092 C

COMPANY ATLANTIC-RICHFIELD COMPANY
WELL FEDERAL S.G. #17
TEST NO. 3
COUNTY RIO BLANCO
STATE COLORADO

PAGE 1

JOHNSTON
...found a better way

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool			

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 3/4"

MUD DATA

Mud Type AIR MIST Wt. -
Viscosity - Water Loss - C.C.
Resist: of Mud - @ - °F; of Filtrate - @ - °F
Chloride Content - PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. SELECTIVE ZONE STRADDLE
Formation Tested GREEN RIVER /OPEN HOLE
Elevation 7036 Ft.
Net Productive Interval Ft.
Estimated Porosity %
All Depths Measured From GROUND LEVEL
Total Depth 2460 Ft.
Main Hole/Casing Size 6 3/4"
Rat Hole/Liner Size -
Drill Collar Length I.D.
Drill Pipe Length I.D.
Packer Depth(s) Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure P.S.I.G. at Surface
Recovery: Cu. Ft. Gas
cc. Oil
cc. Water
cc. Mud
Tot. Liquid cc.
Gravity °API @ °F.
Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202
Company ATLANTIC - RICHFIELD COMPANY Field SORGHUM GULCH
Well FEDERAL S.G. #17 Location 436'FWL 181'FSL SEC.16-3S-96W
Test Interval MULTI-PACKER TEST SERIES #3 Test # 3 Date 1-14-75
II B-1707
County RIO BLANCO State COLORADO
Technician BURNS(VERNAL) Test Approved By MR. JERRY L. BUSSELL
Field Report No. 09092 C
No. Reports Requested 14, 13x

EQUIPMENT SEQUENCE

COMPONENTS	SIZE / TYPE	LENGTH
DRILL PIPE	3.50" / RIF.	-
DRILL COLLAR	4.75" / O.D.	300.00'
RECORDER	SPERRY-SUN	18.00'
RECORDER	J-200 / JOHNSTON	6.00'
CIRCULATING SUB		1.00'
M.F.E. TOOL	JOHNSTON	10.00'
M.F.E. BY-PASS		4.00'
JARS	HS-1	4.00'
RECORDER	J-200 / JOHNSTON	6.00'
SAFETY JOINT		2.00'
PACKER	6.75"	10.00'
RECORDER AND SUB	SPERRY-SUN	2.00'
PERFORATED ANCHOR		12.00'
RECORDER	J-200 / JOHNSTON	6.00'
BLANK-OFF SUB		.60'
PACKER	6.75"	6.00'
RECORDER AND SUB	SPERRY-SUN	2.00'
PERFORATED ANCHOR		12.00'
RECORDER	J-200 / JOHNSTON	6.00'
BLANK-OFF SUB		.50'
PACKER	6.75"	6.00'
RECORDER AND SUB	SPERRY-SUN	2.00'
PERFORATED ANCHOR		12.00'
DRILL PIPE		30.15'
PERFORATED ANCHOR	4.75" / O.D.	22.00'
SELECTIVE ZONE ANCHORING DEVICE	6.75" / O.D.	6.00'
RECORDER	J-200 / JOHNSTON	4.00'

Zone	Packer Depths Top	 2nd	 3rd	Selective Zone Anchor Depth	Setting
#1	1422'	1447'	1472'	1542'	1st
#2	1338'	1363'	1388'	1458'	5th
#3	1184'	1209'	1234'	1304'	2nd
#4	1147'	1172'	1197'	1267'	3rd
#5	1123'	1148'	1173'	1243'	4th
#6	1089'	1114'	1139'	1209'	6th

Instrument Number		J-068	J-080	J-251	J-114	J-493
Capacity		1600#	1600#	1600#	1600#	1600#
Inside-Outside		outside	inside	outside	outside	outside
Clock Capacity - Hours		96	96	96	96	96
Zone Number	Setting Number	Depths				
1	1	1389'	1411'	1439'	1462'	1544'
2	5	1305'	1327'	1355'	1378'	1460'
3	2	1151'	1173'	1201'	1224'	1306'
4	3	1114'	1136'	1164'	1187'	1269'
5	4	1090'	1112'	1140'	1163'	1245'
6	6	1056'	1078'	1106'	1129'	1211'

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE P.S.I.G.)
INITIAL HYDROSTATIC FOR 1ST SETTING(1-14-75)	1914-1929	-	408.1	424.9	435.2	451.2	484.1
OPENED TOOL	1935	0	403.0	416.7	430.5	446.0	480.4
CLOSED TOOL FOR INITIAL SHUT-IN	1936	1	403.0	416.7	430.5	446.0	480.0
		2	403.0	416.7	430.5	444.8	479.4
		4	403.0	416.7	430.5	444.4	478.8
		6	403.0	416.7	430.5	444.1	478.5
		8	403.0	416.7	430.5	444.1	478.2
		10	403.0	416.7	430.5	444.1	478.2
		12	403.0	417.9	430.5	444.1	477.8
		14	403.0	417.9	430.5	444.1	477.8
		16	403.0	418.3	430.5	444.1	477.8
		18	403.0	418.3	430.5	444.1	477.8
		20	403.0	418.6	430.5	444.1	477.8
		22	403.0	418.6	430.5	444.1	477.5
		24	403.0	418.6	430.5	444.1	477.2
		26	403.0	418.9	430.5	444.1	477.2
		28	403.0	418.9	430.5	443.8	477.2
		30	403.0	418.9	430.5	443.8	477.2
INITIAL SHUT-IN - CYCLED TOOL	2006	31	403.0	418.9	430.5	443.8	477.2
		32	405.9	421.4	436.2	449.6	474.1
		34	405.9	421.4	436.2	446.4	474.1
TOOL RE-OPENED FOR WATER INFLOW	2011	36	405.9	375.3	436.2	445.7	474.1
		38	404.0	399.1	430.2	442.5	474.1
		40	404.0	410.9	430.2	442.2	474.1
		42	404.0	412.8	430.2	442.2	474.1
		44	404.0	413.8	430.2	442.2	474.1
		46	404.0	415.1	430.2	442.2	474.1
		48	404.0	415.7	430.2	442.2	474.1
		50	404.0	416.7	430.2	442.2	474.1
		52	404.0	417.0	430.2	442.2	474.1
		54	404.0	417.3	430.2	442.2	473.8
		56	404.0	417.6	430.2	442.2	473.8
		58	404.0	417.9	430.2	442.2	473.8
		60	404.0	418.3	430.2	442.2	473.8
		62	404.0	418.6	430.2	442.2	474.1
		64	404.0	418.9	430.2	442.2	474.1
		66	404.0	418.9	430.2	442.5	474.1
		68	404.0	418.9	430.2	442.5	474.1
		70	404.0	418.9	430.2	442.5	474.1
		72	404.0	419.2	430.2	442.5	474.1
		74	404.0	419.2	430.2	442.5	474.1
STARTED INJECTING 5 GAL./MIN.	2050	75	404.0	419.2	430.2	442.5	474.1
		76	404.0	419.8	434.3	442.5	474.1
		78	404.0	420.2	434.3	442.5	474.1

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

Description	Time of Day	Incre.	Instrument # J-068 Pressure(P.S.I.G.)	Instrument # J-080 Pressure(P.S.I.G.)	Instrument # J-251 Pressure(P.S.I.G.)	Instrument # J-114 Pressure(P.S.I.G.)	Instrument # J-493 Pressure(P.S.I.G.)
		80	404.0	420.5	434.3	442.5	474.1
		82	404.0	420.8	434.3	442.2	474.1
		84	404.0	421.4	434.3	442.2	474.1
		86	404.0	421.8	434.3	442.2	474.1
		88	404.0	421.8	434.3	442.2	474.1
STARTED INJECTING 10 GAL./MIN.	2105	90	404.0	422.1	434.3	442.2	474.1
		92	404.0	423.0	434.3	442.2	473.8
		94	404.0	423.3	434.3	442.2	473.8
		96	404.6	423.7	434.3	442.2	473.8
		98	405.0	424.0	435.6	442.2	473.8
		100	405.6	424.3	435.9	442.2	473.8
		102	405.9	424.6	436.2	442.2	473.8
		104	406.2	424.6	436.5	442.2	473.8
STARTED INJECTING 20 GAL./MIN.	2120	105	406.5	424.6	436.5	442.2	473.8
		106	406.8	425.9	436.8	443.5	473.8
		108	407.1	426.8	437.8	443.5	473.8
		110	408.1	427.8	438.7	443.5	473.8
		112	409.0	428.8	439.4	443.5	473.8
		114	409.7	429.4	440.3	443.5	473.8
		116	410.3	429.7	440.6	445.7	473.8
		118	411.0	430.4	441.0	445.7	473.8
STARTED INJECTING 40 GAL./MIN.	2135	120	411.6	431.0	441.6	445.7	473.8
		122	412.5	436.1	443.5	446.4	473.8
		124	415.1	438.6	445.7	446.4	473.8
		126	417.0	440.5	447.3	446.4	473.8
		128	418.9	442.1	449.2	448.0	473.8
		130	420.1	443.7	450.5	448.0	473.8
		132	421.4	444.7	451.8	448.0	473.8
		134	422.3	445.3	453.0	448.0	473.8
STARTED INJECTING 60 GAL./MIN.	2150	135	423.3	446.0	453.4	448.0	473.8
		136	423.6	448.2	454.0	452.2	473.8
		138	424.9	451.4	455.6	452.2	473.8
		140	426.5	453.6	457.5	452.2	473.8
		142	428.0	453.9	459.1	452.2	473.8
		144	429.3	454.9	460.0	452.2	473.8
		146	430.3	456.5	461.0	452.2	473.8
		148	431.2	457.4	462.3	452.2	473.8
FINISHED INJECTION - STARTED FALL-OFF.	2205	150	432.5	458.7	462.9	452.2	473.8
		152	432.5	456.5	463.2	449.9	473.8
		154	432.5	451.7	463.2	449.3	473.8
		156	432.5	447.6	462.6	448.6	473.8
		158	432.2	444.0	458.1	448.0	473.8
		160	430.3	441.2	455.3	447.7	473.8

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

Description	Time of Day	Incre.	Instrument # J-068 Pressure (P.S.I.G.)	Instrument # J-080 Pressure (P.S.I.G.)	Instrument # J-251 Pressure (P.S.I.G.)	Instrument # J-114 Pressure (P.S.I.G.)	Instrument # J-493 Pressure (P.S.I.G.)
		162	427.1	439.0	452.7	447.3	473.8
		164	424.9	437.0	450.8	447.0	473.8
		166	423.0	435.1	449.5	446.7	473.8
		168	421.7	433.9	448.0	446.4	473.8
		170	420.8	432.9	447.0	446.4	473.8
		172	419.5	431.9	445.7	446.0	473.8
		174	418.2	431.0	444.8	446.0	473.8
		176	417.6	430.0	444.1	445.7	473.8
		178	417.0	429.4	443.5	445.7	473.8
		180	416.3	429.1	442.9	445.7	473.8
		182	415.7	428.4	442.6	445.7	473.8
		184	415.4	428.1	441.9	445.7	473.8
		186	414.7	427.8	441.6	445.4	473.8
		188	414.4	427.5	441.3	445.4	473.8
		190	414.1	427.2	441.0	445.4	473.8
		192	413.8	427.2	440.6	445.4	473.8
		194	413.8	426.8	440.3	445.4	473.8
		196	413.8	426.8	440.0	445.4	473.8
		198	413.5	426.8	440.0	445.4	473.8
		200	413.2	426.5	439.7	445.4	473.8
		202	412.8	426.5	439.4	445.4	473.8
		204	412.8	426.5	439.1	445.4	473.8
		206	412.8	426.2	439.1	445.4	473.8
		208	412.8	426.2	438.7	445.4	473.8
		210	412.5	426.2	438.4	445.4	473.8
		212	412.5	426.2	438.4	445.4	473.8
		214	412.5	426.2	438.4	445.4	473.8
		216	412.5	426.2	438.4	445.4	473.8
FINISHED FALL-OFF - CYCLED TOOL	2312	217	412.5	426.2	438.4	445.4	473.8
PULLED PACKER LOOSE	2319		407.5	422.4	434.6	448.0	479.1
FINAL HYDROSTATIC	2319-2334		403.0	419.8	431.8	447.3	481.3
MOVED UP HOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 2ND SETTING (1-15-75)	0015-0030	-	299.7	318.6	331.4	345.8	378.4
OPENED TOOL	0038	0	308.0	381.6	367.3	401.3	377.1
CLOSED TOOL FOR INITIAL SHUT-IN	0039	1	303.5	327.2	339.3	352.9	376.5
		2	303.5	327.2	339.3	352.9	376.2
		4	303.5	327.2	339.3	352.9	375.9
		6	303.5	327.2	339.3	352.9	375.3
		8	303.5	327.2	339.3	352.9	375.0
		10	303.5	327.2	339.3	352.9	374.6
		12	303.5	327.2	339.3	352.9	374.3
		14	303.5	327.2	339.3	352.9	374.3
		16	303.5	327.2	339.3	352.9	374.0
		18	303.5	327.2	339.3	352.9	374.0

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

Description	Time of Day	Incre.	Instrument # J-068 Pressure (P.S.I.G.)	Instrument # J-080 Pressure (P.S.I.G.)	Instrument # J-251 Pressure (P.S.I.G.)	Instrument # J-114 Pressure (P.S.I.G.)	Instrument # J-493 Pressure (P.S.I.G.)
		20	303.5	327.2	339.3	352.9	373.7
		22	303.5	327.5	339.3	352.9	373.7
		24	303.5	327.5	339.3	352.9	373.7
		26	303.5	327.5	339.3	352.9	373.4
		28	303.5	327.5	339.3	352.9	373.4
		30	303.5	327.5	339.3	352.9	373.4
INITIAL SHUT-IN - CYCLED TOOL	0109	31	303.5	327.5	339.3	352.9	373.4
		32	305.4	325.9	338.3	351.3	373.4
		34	305.4	325.9	338.3	351.3	373.4
		36	305.4	325.9	338.3	351.3	373.4
TOOL RE-OPENED FOR WATER INFLOW	0116	38	305.4	365.7	372.7	386.8	373.4
		40	305.4	333.8	342.8	361.3	373.4
		42	305.4	330.7	342.2	357.8	373.4
		44	305.4	330.3	342.2	357.1	373.4
		46	305.4	329.7	341.8	356.8	373.4
		48	305.4	329.4	341.8	356.5	373.4
		50	305.4	329.1	341.8	356.5	373.4
		52	305.4	329.1	341.8	356.5	373.4
		54	305.4	329.1	341.8	356.5	373.4
		56	305.4	329.1	341.5	356.5	373.4
		58	305.4	329.1	341.5	356.5	373.1
		60	305.4	329.1	341.5	356.5	373.1
STARTED INJECTING 5 GAL./MIN.	0140	62	305.4	329.1	341.5	356.5	373.1
		64	305.4	329.4	342.5	356.5	373.1
		66	305.4	330.3	342.8	356.5	373.1
		68	305.4	331.0	343.1	357.1	373.1
		70	305.4	331.0	343.8	357.4	373.1
		72	305.4	331.6	343.8	357.8	373.1
		74	305.4	331.6	343.8	358.4	373.1
		76	305.4	331.6	343.8	358.4	373.1
STARTED INJECTING 10 GAL./MIN.	0155	77	305.4	331.6	343.8	358.4	373.1
		78	305.4	336.1	346.0	360.0	373.1
		80	305.4	337.0	348.5	362.6	373.1
		82	305.4	337.7	349.5	363.6	373.1
		84	305.4	338.0	349.8	363.9	372.8
		86	305.4	338.3	350.1	364.2	372.8
		88	305.4	338.6	350.4	364.5	372.8
		90	305.4	343.1	350.4	364.5	372.8
STARTED INJECTING 20 GAL./MIN.	0210	92	305.4	343.1	354.9	369.0	372.8
		94	305.4	348.2	360.0	376.5	372.8
		96	305.4	351.4	362.8	378.1	372.8
		98	305.4	353.0	364.4	379.7	372.4
		100	305.4	353.9	365.4	380.0	372.4

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

Description	Time of Day	Incre.	Instrument # J-068 Pressure (P.S.I.G.)	Instrument # J-080 Pressure (P.S.I.G.)	Instrument # J-251 Pressure (P.S.I.G.)	Instrument # J-114 Pressure (P.S.I.G.)	Instrument # J-493 Pressure (P.S.I.G.)
		102	305.4	354.6	366.0	380.6	372.4
		104	305.4	355.2	366.3	380.6	372.4
		106	305.4	355.2	366.3	381.0	372.4
STARTED INJECTING 40 GAL./MIN.	0225	107	305.4	355.2	366.3	381.0	372.4
		108	305.4	372.4	382.5	395.1	372.4
		110	305.4	388.0	397.4	410.9	372.4
		112	305.4	396.6	404.7	419.3	372.4
		114	305.4	402.0	409.8	424.5	372.4
		116	305.4	405.8	413.6	428.6	372.4
		118	305.4	409.0	416.5	431.5	372.4
		120	305.4	410.0	417.1	432.2	372.4
STARTED INJECTING 60 GAL./MIN.	0240	122	305.4	410.0	419.0	434.4	372.4
		124	305.4	420.2	430.8	446.4	372.1
		126	305.4	430.0	438.4	453.5	372.1
		128	305.4	435.8	443.2	458.0	372.1
		130	305.4	439.3	445.7	460.5	372.1
		132	305.4	441.8	448.3	462.8	372.1
		134	305.4	444.4	449.9	465.1	372.1
		136	305.4	446.0	449.9	466.3	372.1
FINISHED INJECTION - STARTED FALL-OFF	0255	137	305.4	446.0	450.2	466.3	372.1
		138	305.4	439.9	370.4	459.6	372.1
		140	305.4	411.6	357.7	438.3	372.1
		142	305.4	362.5	352.3	389.7	372.1
		144	305.4	346.0	349.5	373.2	372.1
		146	305.4	339.9	347.6	367.1	372.1
		148	305.4	336.7	346.6	364.2	372.1
		150	305.4	335.1	345.7	362.3	372.1
		152	305.4	334.2	345.0	361.3	372.1
		154	305.4	333.2	344.7	360.3	372.1
		156	305.4	332.9	344.1	360.0	372.1
		158	305.4	332.6	343.8	359.7	372.1
		160	305.4	332.3	343.4	359.4	372.1
		162	305.4	331.6	343.4	359.1	372.1
		164	305.4	331.3	343.1	358.7	372.1
		166	305.4	331.3	343.1	358.7	372.1
		168	305.4	331.0	342.8	358.4	372.1
		170	305.4	330.7	342.5	358.4	372.1
		172	305.4	330.7	342.5	358.4	372.1
		174	305.4	330.7	342.2	358.4	372.1
		176	305.4	330.7	342.2	358.4	372.1
		178	305.4	330.3	342.2	358.4	372.1
		180	305.4	330.3	342.2	358.1	372.1
		182	305.4	330.3	342.2	358.1	372.1

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
		184	305.4	330.3	341.8	358.1	372.1
		186	305.4	330.0	341.8	357.8	372.1
		188	305.4	330.0	341.8	357.8	372.1
		190	305.4	330.0	341.8	357.8	372.1
		192	305.4	330.0	341.8	357.4	372.1
		194	305.4	330.0	341.8	357.4	372.1
		196	305.4	330.0	341.8	357.1	372.1
FINISHED FALL-OFF - CYCLED TOOL	0355	197	305.4	330.0	341.8	357.1	372.1
PULLED PACKER LOOSE	0409		305.4	326.2	337.4	352.3	372.1
FINAL HYDROSTATIC	0409-0424		302.0	317.3	328.8	344.2	379.3
MOVED UP HOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 3RD SETTING	0444-0459	-	283.9	304.9	313.6	326.5	359.9
OPENED TOOL	0508	0	288.0	315.1	325.6	339.4	363.7
CLOSED TOOL FOR INITIAL SHUT-IN	0509	1	288.0	304.2	318.0	330.4	363.7
		2	288.0	304.2	318.0	330.4	363.7
		4	288.0	304.2	318.0	330.4	363.7
		6	288.0	304.2	318.0	330.4	363.7
		8	288.0	304.2	318.0	330.4	363.7
		10	288.0	304.2	318.0	330.4	363.7
		12	288.0	304.2	318.0	330.4	363.7
		14	288.0	304.2	318.0	330.4	363.7
		16	288.0	304.5	318.0	330.4	363.7
		18	288.0	304.5	318.0	330.4	363.7
		20	288.0	304.5	318.0	330.7	363.7
		22	288.0	304.5	318.0	330.7	363.7
		24	288.0	304.5	318.0	330.7	363.7
		26	288.0	304.5	318.0	330.7	363.7
		28	288.0	304.5	318.0	330.7	363.7
		30	288.0	304.5	318.0	330.7	363.7
INITIAL SHUT-IN - CYCLED TOOL	0539	31	288.0	304.5	318.0	330.7	363.7
		32	288.3	304.9	318.3	330.7	363.7
		34	288.3	304.9	318.3	330.7	363.7
		36	288.3	304.9	318.3	330.7	363.7
TOOL RE-OPENED FOR WATER INFLOW	0546	38	288.3	304.9	318.3	330.7	363.7
		40	288.3	308.4	321.5	332.0	363.7
		42	288.3	307.7	321.5	332.0	363.7
		44	288.3	307.7	321.5	332.0	363.7
		46	288.3	307.7	321.5	332.0	363.7
		48	288.3	307.7	321.5	332.0	363.7
		50	288.3	307.7	321.8	332.0	363.7
STARTED INJECTING 5 GAL./MIN.	0600	52	288.3	307.7	321.8	332.0	363.7
		54	288.3	308.7	323.7	332.0	363.7

PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT #J-068 PRESSURE (P.S.I.G.)	INSTRUMENT #J-080 PRESSURE (P.S.I.G.)	INSTRUMENT #J-251 PRESSURE (P.S.I.G.)	INSTRUMENT #J-114 PRESSURE (P.S.I.G.)	INSTRUMENT #J-493 PRESSURE (P.S.I.G.)
		56	288.3	310.9	324.4	332.0	363.7
		58	288.3	311.9	325.0	332.0	363.7
		60	288.3	312.8	325.6	332.0	363.7
		62	288.3	313.5	326.0	332.0	363.7
		64	288.3	313.8	326.0	332.0	363.7
		66	288.3	313.8	326.0	332.0	363.7
STARTED INJECTING 10 GAL./MIN.	0615	67	288.3	313.8	326.0	332.0	363.7
		68	289.6	317.0	329.5	332.0	363.7
		70	290.2	320.8	332.6	332.0	363.7
		72	291.2	323.0	335.2	332.0	363.7
		74	292.1	324.9	336.8	332.0	363.7
		76	293.1	326.2	338.0	332.0	363.7
		78	294.0	327.2	339.3	332.0	363.7
		80	294.7	327.8	339.9	332.0	363.7
STARTED INJECTING 20 GAL./MIN.	0630	82	295.6	328.8	340.9	332.0	363.7
		84	296.6	331.0	343.1	332.0	363.7
		86	297.8	344.7	354.9	332.0	363.7
		88	299.4	352.3	363.1	332.0	363.7
		90	301.3	358.1	368.8	332.0	363.7
		92	302.9	362.2	373.0	332.0	363.7
		94	304.5	365.4	376.2	332.0	363.7
		96	306.4	368.2	379.0	332.0	363.7
STARTED INJECTING 40 GAL./MIN.	0645	97	307.7	368.9	380.0	332.0	363.7
		98	308.3	380.0	390.1	332.0	363.7
		100	310.2	393.4	403.8	332.0	363.7
		102	312.4	402.0	412.7	332.0	363.7
		104	314.9	408.7	419.0	332.0	363.7
		106	317.5	413.5	423.8	332.0	363.7
		108	320.0	417.6	427.3	332.0	363.7
		110	322.6	420.5	430.5	332.0	363.7
STARTED INJECTING 60 GAL./MIN.	0700	112	325.4	422.7	431.4	332.0	363.7
		114	328.6	438.6	443.8	332.0	363.7
		116	332.1	460.3	462.9	332.0	363.7
		118	335.9	466.0	471.1	332.0	363.7
		120	339.3	467.9	473.4	332.0	363.7
		122	342.2	468.9	475.0	332.0	363.7
		124	345.4	469.5	475.6	332.0	363.7
		126	347.3	469.8	476.2	332.0	363.7
FINISHED INJECTION - STARTED FALL-OFF	0715	127	349.5	470.2	476.9	332.0	363.7
		128	349.5	443.1	451.5	332.0	363.7
		130	349.5	401.7	414.0	332.0	363.7
		132	349.5	378.8	393.3	332.0	363.7
		134	349.5	369.5	391.4	332.0	363.7

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		136	349.5	365.7	378.4	332.0	363.7
		138	347.6	362.8	375.2	332.0	363.7
		140	344.7	360.0	373.6	332.0	363.7
		142	341.6	356.8	370.8	332.0	363.7
		144	339.0	354.2	367.9	332.0	363.7
		146	336.5	351.4	365.4	332.0	363.7
		148	333.6	348.8	362.5	332.0	363.7
		150	331.4	346.0	359.6	332.0	363.7
		152	329.5	343.7	357.4	332.0	363.7
		154	327.9	341.8	355.2	332.0	363.7
		156	326.0	339.9	353.3	332.0	363.7
		158	324.1	338.0	351.1	332.0	363.7
		160	322.6	336.4	349.5	332.0	363.7
		162	321.3	334.8	347.6	332.0	363.7
		164	319.7	333.2	346.0	332.0	363.7
		166	318.4	331.6	344.7	332.0	363.7
		168	316.8	330.3	343.1	332.0	363.7
		170	315.6	329.1	341.8	332.0	363.7
		172	314.3	327.5	340.3	332.0	363.7
		174	313.0	326.2	338.7	332.0	363.7
		176	311.5	324.9	337.4	332.0	363.7
		178	310.5	323.7	336.1	332.0	363.7
		180	309.9	322.7	335.2	332.0	363.7
		182	308.9	321.7	333.9	332.0	363.7
		184	308.0	321.1	332.6	332.0	363.7
		186	307.3	320.2	332.0	332.0	363.7
FINISHED FALL-OFF - CYCLED TOOL	0815	187	306.7	319.8	331.4	332.0	363.7
PULLED PACKER LOOSE	0827		301.6	314.7	326.3	335.9	366.8
FINAL HYDROSTATIC	0827-0842		288.7	309.0	322.5	334.9	369.3
MOVED UP HOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 4TH SETTING	0904-0919		271.2	293.7	305.0	319.7	353.6
OPENED TOOL	0930	0	278.2	310.9	321.2	334.9	354.9
CLOSED FOR INITIAL SHUT-IN	0931	1	278.2	300.1	312.0	324.6	354.9
		2	278.2	300.1	312.0	324.6	354.9
		4	278.2	298.2	310.7	324.6	354.9
		6	278.2	298.2	310.4	324.6	354.9
		8	278.2	297.9	310.4	324.6	354.9
		10	278.2	297.9	310.4	324.6	354.9
		12	278.2	297.9	310.4	324.6	354.9
		14	278.2	297.9	310.4	324.6	354.9
		16	278.2	297.9	310.4	324.6	354.9
		18	278.2	297.9	310.4	324.6	354.9
		20	278.2	297.9	310.4	324.6	354.9
		22	278.2	297.9	310.4	324.6	354.9
		24	278.2	297.9	310.4	324.6	354.9

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE P.S.I.G.)
		26	278.2	297.9	310.4	324.6	354.9
		28	278.2	297.9	310.4	324.6	354.9
		30	278.2	297.9	310.4	324.6	354.9
INITIAL SHUT-IN - CYCLED TOOL	1001	31	278.2	297.9	310.4	324.6	354.9
		32	280.7	296.3	309.1	323.6	354.2
		34	280.7	296.3	309.1	323.6	354.2
		36	280.7	296.3	309.1	323.6	354.6
		38	280.7	303.3	309.1	323.6	354.6
TOOL RE-OPENED FOR WATER INFLOW	1009	39	280.7	303.3	309.1	323.6	354.6
		40	280.7	302.6	313.9	328.1	354.6
		42	280.7	300.7	313.9	328.1	354.6
		44	280.7	299.4	312.6	327.2	354.6
		46	280.7	298.8	311.7	326.5	354.6
		48	280.7	298.5	311.0	325.9	354.6
		50	280.7	298.5	310.7	325.5	354.6
		52	280.7	298.2	310.4	325.5	354.6
		54	280.7	298.2	310.4	325.5	354.6
		56	280.7	298.2	310.4	325.5	354.6
		58	280.7	298.2	310.4	325.5	354.6
		60	280.7	298.2	310.4	325.5	354.6
		62	280.7	298.2	310.4	325.5	354.6
		64	280.7	298.2	310.4	325.5	354.6
		66	280.7	298.2	310.4	325.5	354.9
		68	280.7	298.2	310.4	325.2	354.9
		70	280.7	298.2	310.4	325.2	354.9
		72	280.7	298.2	310.4	325.2	354.9
		74	280.7	298.2	310.4	325.2	354.9
		76	280.7	298.2	310.4	325.2	354.9
		78	280.7	298.2	310.4	325.2	354.9
		80	280.7	298.2	310.4	325.2	354.9
		82	280.7	298.2	310.4	325.2	354.9
		84	280.7	298.2	310.4	325.2	354.9
		86	280.7	298.2	310.4	324.9	354.9
		88	280.7	298.2	310.4	324.9	354.9
STARTED INJECTING 5 GAL./MIN.	1100	90	280.7	298.2	310.4	324.9	354.9
		92	280.7	299.4	316.7	326.5	354.9
		94	280.7	305.5	321.5	331.0	354.9
		96	280.7	311.2	325.3	336.5	354.9
		98	280.7	314.7	327.2	340.0	354.9
		100	280.7	317.0	329.1	342.3	354.9
		102	280.7	318.9	330.7	344.6	354.9
		104	280.7	319.8	331.0	345.2	354.9
STARTED INJECTING 10 GAL./MIN.	1115	105	280.7	319.8	331.0	345.2	354.9
		106	280.7	321.1	338.3	351.0	354.6
		108	280.7	339.3	355.5	369.0	354.6
		110	280.7	356.1	367.6	381.6	354.6

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE P.S.I.G.)
		112	280.7	358.7	370.1	364.8	354.6
		114	280.7	362.2	373.3	368.4	354.6
		116	280.7	366.0	376.5	391.9	354.6
		118	280.7	369.2	380.0	395.5	354.6
STARTED INJECTING 20 GAL./MIN.	1130	120	280.7	372.4	382.8	397.4	354.6
		122	280.7	393.4	400.6	414.5	354.6
		124	280.7	410.6	418.1	432.5	354.6
		126	280.7	426.2	434.3	448.6	354.6
		128	280.7	442.1	448.9	464.1	354.6
		130	280.7	455.5	462.6	477.6	354.2
		132	280.7	467.0	475.0	490.8	354.2
STABILIZED. OVER-FLOWED.	1143	133	280.7	472.1	480.4	496.6	354.2
		134	280.7	474.9	483.2	499.2	354.2
		136	280.7	476.9	485.8	501.5	354.2
		138	280.7	478.1	487.0	503.1	354.2
		140	280.7	478.8	488.0	504.0	354.2
		142	280.7	479.4	488.6	504.4	354.2
		144	280.7	479.7	488.9	505.0	354.2
		146	280.7	480.0	489.3	505.3	354.2
FINISHED INJECTION - STARTED FALL-OFF.	1158	148	280.7	480.4	489.6	505.7	354.2
		150	280.7	460.9	471.8	491.2	354.2
		152	280.7	443.1	454.6	472.8	354.2
		154	280.7	426.5	438.1	455.4	354.2
		156	280.7	410.9	422.5	439.9	354.2
		158	280.7	398.2	409.2	426.7	354.2
		160	280.7	385.8	397.8	414.5	354.2
		162	280.7	374.9	387.0	402.9	354.2
		164	280.7	565.4	376.8	393.5	354.2
		166	280.7	356.1	367.9	382.3	354.2
		168	280.7	348.2	360.3	374.2	354.2
		170	280.7	341.2	353.3	367.4	354.2
		172	280.7	334.8	346.3	361.3	354.2
		174	280.7	329.4	340.9	356.2	354.2
		176	280.7	324.6	336.4	351.3	354.2
		178	280.7	320.5	332.6	346.8	354.2
		180	280.7	316.6	328.5	343.3	354.2
		182	280.7	313.1	325.3	340.4	354.2
		184	280.7	310.3	323.4	337.8	354.2
		186	280.7	308.0	320.2	335.2	354.2
		188	280.7	305.8	318.3	333.6	354.2
		190	280.7	304.2	316.7	332.0	354.2
		192	280.7	303.0	315.2	330.7	354.2
		194	280.7	301.7	314.2	330.1	354.2

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		196	280.7	300.7	313.6	328.8	354.2
		198	280.7	300.4	312.9	328.1	354.2
		200	280.7	299.8	312.3	328.1	354.2
		202	280.7	299.1	312.0	327.8	354.2
		204	280.7	298.8	311.7	327.2	354.2
		206	280.7	298.8	311.3	326.8	354.2
FINISHED FALL-OFF - CYCLED TOOL	1258	208	280.7	298.8	311.3	326.5	354.2
PULLED PACKER LOOSE	1307		280.4	297.2	311.0	324.6	354.6
FINAL HYDROSTATIC	1307-1322		277.9	293.4	306.6	321.4	355.2
MOVED DOWN HOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 5TH SETTING.	1350-1405		365.6	388.3	399.7	413.6	449.3
OPENED TOOL	1412	0	371.7	381.6	369.5	384.2	418.6
CLOSED TOOL FOR INITIAL SHUT-IN.	1413	1	371.7	381.6	401.6	415.8	449.6
		2	371.7	381.6	395.5	409.6	442.4
		4	371.7	381.6	395.2	409.3	442.1
		6	371.7	381.6	395.2	409.3	441.8
		8	371.7	381.6	395.2	409.3	441.8
		10	371.7	381.3	394.9	409.3	441.5
		12	371.7	381.3	394.9	409.3	441.5
		14	371.7	381.3	394.9	409.3	441.5
		16	371.7	381.3	394.9	409.3	441.5
		18	371.7	381.3	394.9	409.0	441.5
		20	371.7	381.0	394.9	408.7	441.5
		22	371.7	381.0	394.9	408.7	441.5
		24	371.7	381.0	394.9	408.7	441.5
		26	371.7	381.0	394.9	408.7	441.5
		28	371.7	381.0	394.9	408.7	441.1
		30	371.7	381.0	394.9	408.7	441.1
INITIAL SHUT-IN - CYCLED TOOL	1443	31	371.7	381.0	394.9	408.7	441.1
		32	372.3	396.9	396.2	410.3	442.7
		34	372.3	381.6	394.9	409.3	441.8
		36	372.3	381.6	394.9	409.3	441.8
TOOL RE-OPENED FOR WATER INFLOW	1449	37	372.3	381.6	394.6	409.3	441.8
		38	372.3	360.9	380.3	391.6	424.5
		40	372.3	371.4	385.1	399.7	432.7
		42	372.3	374.0	386.6	400.9	434.2
		44	372.3	374.6	387.0	401.3	434.9
		46	372.3	374.9	387.3	401.9	435.2
		48	372.3	375.3	387.3	401.9	435.2
		50	372.3	375.6	387.6	402.2	435.2
		52	372.3	375.6	387.6	402.2	435.2
		54	372.3	375.6	387.9	402.2	435.5
STARTED INJECTING 5 GAL./MIN.	1510	56	372.3	375.6	387.9	402.2	435.5
		58	372.3	375.6	387.9	402.2	435.5

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE P.S.I.G.)
		60	372.3	380.0	391.4	405.8	439.9
		62	372.3	381.3	393.3	407.7	440.8
		64	372.3	381.9	393.9	408.7	441.5
		66	372.3	382.6	394.6	409.0	442.1
		68	372.3	384.5	395.2	410.0	443.0
		70	372.3	385.1	397.1	411.6	444.3
		72	372.3	385.1	397.1	411.6	444.3
STARTED INJECTING 10 GAL./MIN.	1525	73	372.3	385.1	397.1	411.6	444.3
		74	372.3	386.4	399.7	412.5	445.5
		76	372.3	387.7	400.3	413.8	446.8
		78	372.3	388.3	400.9	414.5	447.4
		80	372.3	388.6	401.6	415.1	448.0
		82	372.3	389.3	401.9	415.4	448.7
		84	372.3	389.3	401.9	416.1	449.0
		86	372.3	389.6	402.2	416.1	449.3
STARTED INJECTING 20 GAL./MIN.	1540	88	372.3	389.9	402.2	416.2	449.9
		90	372.3	396.9	405.7	424.5	456.8
		92	372.3	399.8	409.5	426.4	459.0
		94	372.3	401.4	411.4	427.7	460.3
		96	372.3	402.3	413.0	428.3	461.2
		98	372.3	403.3	414.0	429.3	462.2
		100	372.3	403.9	414.6	429.6	463.1
		102	372.3	407.4	415.2	432.5	436.7
STARTED INJECTING 40 GAL./MIN.	1555	103	372.3	407.4	415.6	432.8	465.6
		104	372.3	414.1	420.0	436.7	466.6
		106	372.3	421.8	428.3	444.4	475.4
		108	372.3	425.3	432.4	448.0	479.7
		110	372.3	427.5	434.6	450.2	482.2
		112	372.3	429.1	436.2	451.5	484.1
		114	372.3	430.0	437.2	452.5	485.1
		116	372.3	431.0	438.1	453.5	486.0
STARTED INJECTING 60 GAL./MIN.	1610	118	372.3	431.0	438.1	453.8	486.3
		120	372.3	440.5	445.7	462.5	493.5
		122	372.3	445.6	449.2	466.0	497.0
		124	372.3	448.5	451.1	467.0	498.9
		126	372.3	448.5	451.5	467.6	499.5
		128	372.3	449.5	452.4	468.9	500.1
		130	372.3	450.4	453.4	469.9	501.1
		132	372.3	451.7	454.3	470.2	501.7
FINISHED INJECTION - STARTED FALL-OFF.	1625	133	372.3	452.0	454.3	470.2	501.7
		134	372.3	438.0	438.4	444.8	479.7
		136	372.3	418.6	425.4	433.8	468.1
		138	372.3	408.1	417.5	427.0	460.3
		140	372.3	401.4	411.7	422.2	455.3

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

Description	Time of Day	Incre.	Instrument # J-068 Pressure(P.S.I.G.)	Instrument # J-080 Pressure(P.S.I.G.)	Instrument # J-251 Pressure(P.S.I.G.)	Instrument # J-114 Pressure(P.S.I.G.)	Instrument # J-493 Pressure(P.S.I.G.)
		142	372.3	396.6	407.9	419.0	451.5
		144	372.3	393.7	405.4	416.1	449.3
		146	372.3	391.2	403.5	414.5	447.1
		148	372.3	389.6	401.6	412.9	445.2
		150	372.3	388.0	400.3	411.9	444.3
		152	372.3	387.0	399.3	410.9	443.7
		154	372.3	386.1	398.7	410.3	442.7
		156	372.3	385.4	398.1	409.6	442.1
		158	372.3	384.8	397.1	408.7	441.8
		160	372.3	384.5	396.8	408.4	441.5
		162	372.3	383.9	396.2	408.0	440.8
		164	372.3	383.5	395.9	407.7	440.8
		166	372.3	383.2	395.5	407.4	440.5
		168	372.3	382.9	395.2	406.7	440.2
		170	372.3	382.9	394.9	406.7	440.2
		172	372.3	382.6	394.6	406.7	440.2
		174	372.3	382.6	394.3	406.4	440.2
		176	372.3	382.6	393.9	406.4	440.2
		178	372.3	382.3	393.6	406.4	440.2
		180	372.3	381.9	393.6	406.1	440.2
		182	372.3	381.9	393.6	405.8	440.2
		184	372.3	381.6	393.3	405.8	440.2
		186	372.3	381.6	393.3	405.8	440.2
		188	372.3	381.6	393.0	405.8	439.9
		190	372.3	381.6	392.7	405.8	439.9
		192	372.3	381.6	392.7	405.5	439.9
FINISHED FALL-OFF - CYCLED TOOL	1725	193	372.3	381.6	392.7	405.5	439.9
PULLED PACKER LOOSE	1735		372.3	392.1	401.6	415.1	449.6
FINAL HYDROSTATIC	1735-1750		371.3	388.3	398.7	412.2	448.4
MOVED UP HOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 6TH SETTING	1815-1830		261.7	277.5	289.4	303.6	339.2
OPENED TOOL	1840	0	263.0	376.2	388.2	362.6	338.6
CLOSED TOOL FOR INITIAL SHUT-IN	1841	1	263.0	281.9	294.5	309.4	338.6
		2	263.0	281.9	294.5	309.4	338.6
		4	263.0	281.9	294.5	309.8	338.6
		6	263.0	281.9	294.5	309.8	338.6
		8	263.0	281.9	294.5	309.8	338.6
		10	263.0	281.9	294.5	309.8	338.6
		12	263.0	281.9	294.5	309.8	338.6
		14	263.0	281.9	294.5	309.8	338.6
		16	263.0	281.9	294.5	309.8	338.6
		18	263.0	281.9	294.5	309.8	338.6
		20	263.0	281.9	294.5	309.8	338.6

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

Description	Time of Day	Incre.	Instrument # J-068 Pressure (P.S.I.G.)	Instrument # J-080 Pressure (P.S.I.G.)	Instrument # J-251 Pressure (P.S.I.G.)	Instrument # J-114 Pressure (P.S.I.G.)	Instrument # J-493 Pressure (P.S.I.G.)
		142	372.3	396.6	407.9	419.0	451.5
		144	372.3	393.7	405.4	416.1	449.3
		146	372.3	391.2	403.5	414.5	447.1
		148	372.3	389.6	401.6	412.9	445.2
		150	372.3	388.0	400.3	411.9	444.3
		152	372.3	387.0	399.3	410.9	443.7
		154	372.3	386.1	398.7	410.3	442.7
		156	372.3	385.4	398.1	409.6	442.1
		158	372.3	384.8	397.1	408.7	441.8
		160	372.3	384.5	396.8	408.4	441.5
		162	372.3	383.9	396.2	408.0	440.8
		164	372.3	383.5	395.9	407.7	440.8
		166	372.3	383.2	395.5	407.4	440.5
		168	372.3	382.9	395.2	406.7	440.2
		170	372.3	382.9	394.9	406.7	440.2
		172	372.3	382.6	394.6	406.7	440.2
		174	372.3	382.6	394.3	406.4	440.2
		176	372.3	382.6	393.9	406.4	440.2
		178	372.3	382.3	393.6	406.4	440.2
		180	372.3	381.9	393.6	406.1	440.2
		182	372.3	381.9	393.6	405.8	440.2
		184	372.3	381.6	393.3	405.8	440.2
		186	372.3	381.6	393.3	405.8	440.2
		188	372.3	381.6	393.0	405.8	439.9
		190	372.3	381.6	392.7	405.8	439.9
		192	372.3	381.6	392.7	405.5	439.9
FINISHED FALL-OFF - CYCLED TOOL	1725	193	372.3	381.6	392.7	405.5	439.9
PULLED PACKER LOOSE	1735		372.3	392.1	401.6	415.1	449.6
FINAL HYDROSTATIC	1735-1750		371.3	388.3	398.7	412.2	448.4
MOVED UP HOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 6TH SETTING	1815-1830		261.7	277.5	289.4	303.6	339.2
OPENED TOOL	1840	0	263.0	376.2	388.2	362.6	338.6
CLOSED TOOL FOR INITIAL SHUT-IN	1841	1	263.0	281.9	294.5	309.4	338.6
		2	263.0	281.9	294.5	309.4	338.6
		4	263.0	281.9	294.5	309.8	338.6
		6	263.0	281.9	294.5	309.8	338.6
		8	263.0	281.9	294.5	309.8	338.6
		10	263.0	281.9	294.5	309.8	338.6
		12	263.0	281.9	294.5	309.8	338.6
		14	263.0	281.9	294.5	309.8	338.6
		16	263.0	281.9	294.5	309.8	338.6
		18	263.0	281.9	294.5	309.8	338.6
		20	263.0	281.9	294.5	309.8	338.6

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE P.S.I.G.)
		22	263.0	281.9	294.5	309.8	338.6
		24	263.0	281.9	294.5	309.8	338.6
		26	263.0	281.9	294.5	309.8	338.6
		28	263.0	281.9	294.5	309.8	338.6
		30	263.0	281.9	294.5	309.8	338.9
INITIAL SHUT-IN - CYCLED TOOL	1911	31	263.0	281.9	294.5	309.8	338.9
		32	264.3	281.3	294.5	309.4	338.9
		34	264.3	281.3	294.5	309.4	338.9
		36	264.3	281.3	294.5	309.4	338.9
		38	264.3	281.3	294.5	309.4	338.9
TOOL RE-OPENED FOR WATER INFLOW	1920	40	264.3	368.9	380.0	321.4	338.9
		42	264.3	361.2	373.6	313.6	338.9
		44	264.3	350.1	362.8	310.7	338.9
		46	264.3	340.2	353.3	310.7	338.9
		48	264.3	331.6	345.0	310.7	338.9
		50	264.3	324.3	337.7	310.7	338.9
		52	264.3	317.3	330.7	310.7	338.9
		54	264.3	311.2	324.7	310.7	338.9
		56	264.3	306.1	319.9	310.7	338.9
		58	264.3	302.0	315.5	310.7	338.9
		60	264.3	298.2	311.3	310.7	339.2
		62	264.3	295.0	308.2	310.7	339.2
		64	264.3	292.4	305.6	310.7	339.2
		66	264.3	290.5	303.4	310.7	339.2
		68	264.3	288.9	301.5	310.7	339.2
		60	264.3	287.7	299.3	310.7	339.2
		72	264.3	286.4	298.6	310.7	339.2
		74	264.3	285.4	297.7	310.7	339.2
		76	264.3	284.8	297.0	310.4	339.2
		78	264.3	284.2	296.4	310.4	339.2
		80	264.3	283.8	295.8	310.4	339.2
		82	264.3	283.5	295.5	310.1	339.2
		84	264.3	283.2	295.1	310.1	339.2
		86	264.3	283.2	295.1	310.1	339.2
		88	264.3	282.9	295.1	310.1	339.2
		90	264.3	282.9	294.8	310.1	339.2
		92	264.3	282.6	294.8	310.1	339.2
		94	264.3	282.6	294.5	310.1	339.2
		96	264.3	282.6	294.5	310.1	339.2
		98	264.3	282.3	294.5	310.1	339.2
		100	264.3	282.3	294.5	310.1	339.2
		102	264.3	282.3	294.5	310.1	339.2
		104	264.3	281.9	294.5	310.1	339.2
STARTED INJECTING 5 GAL./MIN.	2025	105	264.3	281.9	294.5	310.1	339.2

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		106	264.3	287.7	300.2	310.1	339.2
		108	264.3	297.5	310.4	310.1	339.2
		110	264.3	307.1	318.3	310.1	339.2
		112	264.3	315.4	326.6	310.1	339.2
		114	264.3	322.4	334.2	310.1	339.2
		116	264.3	329.1	340.6	310.1	339.2
		118	264.3	335.1	346.3	310.1	339.2
STARTED INJECTING 10 GAL./MIN.	2040	120	264.3	340.5	351.7	310.1	339.2
		122	264.3	357.4	368.5	310.1	339.2
		124	264.3	372.4	383.1	310.1	339.2
		126	264.3	386.1	396.5	310.1	339.2
		128	264.3	398.2	408.2	310.1	339.2
		130	264.3	410.0	419.4	310.1	339.2
		132	264.3	420.5	429.5	310.1	339.2
		134	264.3	430.0	438.7	310.1	339.2
FINISHED INJECTION, BEGAN FALL-OFF.	2055	135	264.3	437.7	448.0	310.1	339.2
		136	264.3	430.7	442.2	310.1	339.2
		138	264.3	415.4	424.8	310.1	339.2
STARTED INJECTING 20 GAL./MIN.	2100	140	264.3	404.6	417.1	310.1	339.2
		142	264.3	433.2	439.7	310.1	339.2
		144	264.3	454.6	459.7	310.1	339.2
		146	264.3	461.9	469.2	310.1	339.2
11 GAL./MIN. TO SURFACE	2107	147	264.3	465.7	472.7	310.1	339.2
		148	264.3	465.7	472.7	310.1	339.2
		150	264.3	465.7	472.7	310.1	339.2
		152	264.3	465.7	473.7	310.1	339.2
		154	264.3	465.7	474.3	310.1	339.2
		156	264.3	466.3	475.0	310.1	339.2
		158	264.3	466.3	475.6	310.1	339.2
		160	264.3	466.7	476.2	310.1	339.2
FINISHED INJECTION - STARTED FALL-OFF.	2122	162	264.3	467.0	476.5	310.1	339.2
		164	264.3	447.9	459.4	310.1	339.2
		166	264.3	430.4	441.0	310.1	339.2
		168	264.3	413.8	424.8	310.1	339.2
		170	264.3	398.2	409.8	310.1	339.2
		172	264.3	384.5	396.5	310.1	339.2
		174	264.3	372.1	383.8	310.1	339.2
		176	264.3	360.3	372.7	310.1	339.2
		178	264.3	350.1	361.5	310.1	339.2
		180	264.3	340.2	352.3	310.1	339.2
		182	264.3	331.3	344.1	310.1	339.2
		184	264.3	323.7	336.1	310.1	339.2
		186	264.3	317.0	329.1	310.1	339.2

PRESSURE DATA FOR MULTI-PACKER TEST SERIES

Description	Time of Day	Incre.	Instrument # J-068 Pressure (P.S.I.G.)	Instrument # J-080 Pressure (P.S.I.G.)	Instrument # J-251 Pressure (P.S.I.G.)	Instrument # J-114 Pressure (P.S.I.G.)	Instrument # J-493 Pressure (P.S.I.G.)
		188	264.3	310.9	323.4	310.1	339.2
		190	264.3	305.5	318.3	310.1	339.2
		192	264.3	301.0	314.2	310.1	339.2
		194	264.3	297.2	310.1	310.1	339.2
		196	264.3	294.0	306.9	310.1	339.2
		198	264.3	291.2	304.4	310.1	339.2
		200	264.3	289.3	302.4	310.1	339.2
		202	264.3	287.3	300.2	310.1	339.2
		204	264.3	286.1	299.0	310.1	339.2
		206	264.3	285.1	297.7	310.1	339.2
		208	264.3	283.8	297.0	310.1	339.2
		210	264.3	283.2	296.4	310.1	339.2
		212	264.3	282.9	295.8	310.1	339.2
		214	264.3	282.6	295.5	310.1	339.2
		216	264.3	282.3	295.1	310.1	339.2
		218	264.3	281.9	295.1	310.1	339.2
		220	264.3	281.9	294.8	310.1	339.2
FINISHED FALL-OFF.	2222	222	264.3	281.9	294.8	310.1	339.2
		224	264.3	281.9	294.8	310.1	339.2
STARTED INJECTING DOWN ANNULUS:20 GAL./MIN.	2225	225	264.3	281.9	294.8	310.1	339.2
		226	267.4	281.6	294.8	310.1	339.2
		228	270.9	281.6	294.8	310.1	339.2
		230	274.1	281.6	294.8	310.1	339.2
		232	277.2	281.6	294.8	310.1	339.2
		234	280.4	281.6	294.8	310.1	339.2
		236	283.3	281.6	294.8	310.1	339.2
		238	283.9	281.6	294.8	310.1	339.2
STARTED INJECTING DOWN ANNULUS: 40 GAL./MIN.	2240	240	284.2	281.9	294.8	310.1	339.2
		242	291.2	281.9	294.8	310.1	339.2
		244	297.5	282.3	294.8	310.1	339.2
		246	303.9	282.3	294.8	310.1	339.2
		248	309.2	282.3	294.8	310.1	339.2
		250	314.0	282.6	294.8	310.1	339.2
		252	318.7	282.6	294.8	310.1	339.2
		254	322.9	282.6	294.8	310.1	339.2
STARTED INJECTING DOWN ANNULUS: 60 GAL./MIN.	2255	255	324.8	282.6	294.8	310.1	339.2
		256	328.3	282.9	294.8	310.1	339.2
		258	334.3	282.9	294.8	310.1	339.2
		260	341.6	282.9	294.8	310.1	339.2
		262	347.6	282.9	294.8	310.1	339.2
		264	353.6	282.9	294.8	310.1	339.2
		266	358.3	282.9	294.8	310.1	339.2
		268	362.2	282.9	294.8	310.1	339.2
FINISHED INJECTION - STARTED FALL-OFF.	2310	270	364.7	282.9	294.8	310.1	339.2